ENGINEERING NEWS-RECORD

New passenger terminal for the Canadian National Railway System in Montreal

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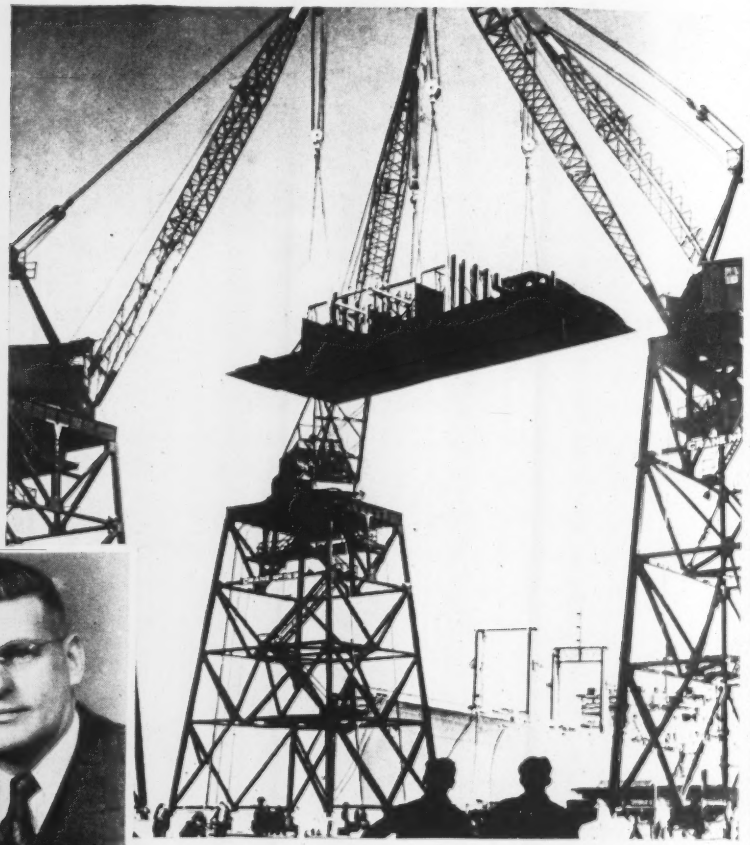
The Shipyard Crane That Makes Haste Slowly

by
W. C. Raube,
Industrial Engineering Dept.,
General Electric Company



ON shipyard cranes, accurate control of low speed while lowering equipment, sections of bulkhead, etc. into position, and the ability to *inch the load into place*, are important factors that enable shipbuilders to save time and increase production.

The recent stupendous expansion in shipbuilding the yards for the most part being supplied solely with a-c power emphasized the need for a braking hoist control which would provide such accuracy in load lowering. Automatic mechanical load brakes, used on cranes in machine shops, warehouses, etc. where the service is not severe, are unsatisfactory for shipyard use because of the excessive wear of friction disks and the resultant high cost of maintenance.

Thus, there was the problem of developing a type of electric crane-hoist control which would provide low-speed lowering, safety, and ease of spotting. A system was designed which uses d-c dynamic braking on a-c motors, the d-c supply being self-contained on the crane.

This system allows a wide range of low lowering speeds, and is far superior to any other type of braking hoist control. The lowest lowering speed (with full load) provided by other a-c control systems is still too fast for satisfactory and accurate operation. Using this system, on a typical controller having four low-speed points, full loads can be lowered at *62, 38, 16, or 6 per cent* of the rated hoist speed. This same control can lower a half load at *30, 19, 7, or 3 per cent* of the hoist speed.

This system operates in a conventional manner when lifting loads. When lowering a load, the stator winding is excited from the d-c source. The motor acts as a generator, and the energy of the overhauling load is absorbed as heat in the motor secondary resistor. The latter can be adjusted by means of the master switch. Thus the braking torque varies within wide limits, and the lowering speed can be controlled with great accuracy.

Equally important is the control provided, which enables the operator to lower an empty hook as accurately as he lowers a load. Either the empty hook or the load can be jogged into position with equal facility.

This is another example of the application of experience and skill by General Electric to solve a problem created by today's conditions. If you have a difficult problem on which we can be of help, we would like to work with you. General Electric Co., Schenectady, New York.

GENERAL ELECTRIC

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The Week In Engineering and Construction

ENGINEERING NEWS-RECORD • JULY 22, 1943 • VOLUME 131 • NUMBER 4

Chicago's water endangered by sewage in Lake Michigan

City Commissioner Hewitt says steadily rising contamination is an ever-increasing menace to public health. Other cities also combating water pollution dangers.

Contamination of the water supply for the more than 1,000,000 residents of Chicago's south side is rising steadily and constitutes an ever increasing menace to health. This is the report of Oscar E. Hewitt, city commissioner of public works, based on a report by Dr. George E. Wakerlin of the University of Illinois medical school faculty, which classifies this source of water supply as little better than diluted sewage.

By the standards of the U. S. Public Health Service, said Commissioner Hewitt, the water is so polluted that chlorine cannot completely control it. He also asserted that the coliform count in the water has risen sharply during the first seven days of July. Eleven of the 15 tests taken during this period shows the coliform count to be considerably over the danger point.

According to the U. S. Public Health Service an average count in excess of 50 coliform bacteria per 100 c.c. cannot be treated satisfactorily by simple chlorination. Commissioner Hewitt asserted that, "only a miracle will save Chicago from an epidemic of water-borne disease." Although, as yet, no general warning has been issued to boil drinking water in the endangered area, city engineers and health authorities are watching the situation carefully in an attempt to avoid a city-wide epidemic.

Much of the pollution in the water on the south side has been attributed to industries engaged in war production, said Horace P. Ramey, assistant chief engineer of the Chicago Sanitary District, and for this reason it is hoped that the interest of the WPB may be aroused in combating this dangerous situation.

Repeated attempts of the city to obtain permission to increase the diversion of water from Lake Michigan from 1,500 to 5,000 cu. ft. per sec. (*ENR* May 27, p. 775) have met with no success, although the level of the lake now is 0.79 ft. higher than a year ago. Increasing the rate of flow 3,500 cfs., asserted Ramey, would lower Lake Michigan's level only 1 in. the first year and if this diversion was continued for five years the total drop would be only 2 in., and thereafter the level would remain constant.

Fear that Lake Michigan's abnormally high level might endanger shoreline property was expressed by Robert Kingery, general manager of the Chicago Regional Planning Association. Cities, villages and park districts along the lake front from Racine, Wis., to Michigan City, Ind., have been warned, said Kingery, that considerable damage to bulkheads, small harbor works and piers may result from the rising lake level unless further protective measures are taken.

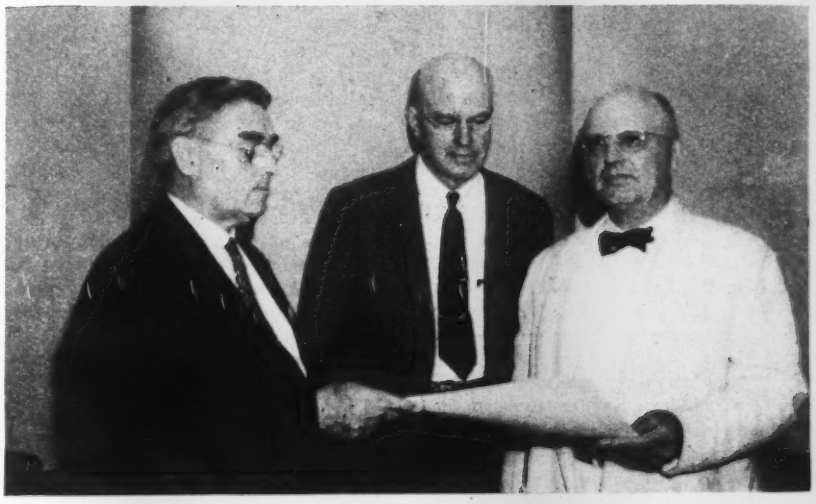
Chicago's need for more lake diversion has been intensified by its inability to obtain materials to complete construction of a new filtration plant on the city's south side to alleviate an unhealthful condition resulting from a dangerous pollution of the city's water supply.

Just before Congress recessed for the summer, Representative Sabath of Illinois introduced into the House a joint resolution authorizing Chicago to increase diversions from Lake Michigan into the Sanitary District Canal, the Calumet River and the Sag Canal from the 1,500-c.f.s. limit set by the U. S. Supreme Court to 5,000 c.f.s. In presenting the resolution, Representative Sabath said that Lake Michigan is at its highest level since 1931, being 18 in. above the average.

Other cities' problems

Chicago is not the only large city that is having water pollution troubles.

Warning placards have been posted on beaches near Los Angeles by the California State Board of Health. Laboratory studies and sanitation inspection made last year resulted in findings that the



Minnesota engineers receive state charter

On July 9 at Minneapolis, the Minnesota Association of Professional Engineers was inducted into the National Society of Professional Engineers. In the group pictured above, Professor Harry E. Nold, left, of Columbus, Ohio, vice president of the National Society of Professional Engineers, presents the state charter to R. R. Hermann of St. Paul, president of the Minnesota Association of Professional Engineers, right, while Walter H. Wheeler, of Minneapolis, national director to represent Minnesota, looks on. The presentation occurred at an Induction dinner meeting attended by 125 professional engineers.

degree of pollution is sufficiently dangerous to make it necessary to exclude the public from the shore waters and the beach up to the line reached by high tide. The chief source of pollution is the mile-long Hyperion outfall which leaks at the joints and is inadequate to handle sewage flows greatly increased by the large growth of population due to the influx of war workers and military personnel.

The Interstate Sanitation Commission of New York, New Jersey and Connecticut is taking steps to determine the character of sewage disposal methods to be employed by municipalities along Long Island Sound to protect the shore waters of that section of the New York metropolitan area.

Surveys looking toward a $100,000,000 post-war program to rid the Delaware and Schuylkill rivers of silt, sewage and other impurities have been authorized by the Interstate Commission on the Delaware River Basin. Edward J. Turner, of Chester, Pa., chairman of the commission said.

The cost of cleaning up the two rivers from their mouths to their headwaters would be split four ways, he said, with proportionate parts borne by the federal and state governments, the municipalities and directly affected industries.

"What we have in mind is a long-range program which will ultimately restore the Delaware river and its tributaries, including the Schuylkill, to the beauty and cleanliness of a century ago."

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New sewage disposal plan considered for Toronto

The Board of Control of the city of Toronto, Ont., is considering immediate action regarding the construction of a new sewage disposal plant. At present, the city's sewage is partially treated in an inadequate plant with the result that constant vigilance is necessary with regard to the municipal water supply, drawn from Lake Ontario, into which all sewage is discharged. Many of the local beaches are repeatedly being fouled.

This matter has been under consideration for many years. In 1941 the city called for tenders and received two, but difficulties arose with regard to the supply of the necessary reinforcing steel. The low bidder, Rayner Construction Company of Toronto, has now written to the city stating that its bid must be increased by $128,820 in view of erosion at the plant site since the original estimates were made, due to the present high water level of Lake Ontario.

Big Inch completed from Texas to east coast

Big Inch, the longest, largest and most urgently needed oil-carrying pipeline in the world, was dedicated July 19 by Secretary Ickes as Petroleum Administrator, to "the task of victory for the freedom of all men."

Ceremonial closure of the line was made at Phoenixville, Pa., about thirty miles west of Philadelphia, where the 1,251-mile 24-in. dia. oil carrier was joined with 20-in. dia. branches which will carry the Texas crude oil to Eastern refineries with termini at Bayonne, N. J. and Marcus Hook, Pa.

Oil is now being pumped eastward from a midwest terminal at Norris City, Ill., advancing about 3 mi. per hour. The column of oil is expected to reach Phoenixville early in August and the seaboard refineries by Aug. 20. After that time the 1,388 mile, 24-in. and 20-in. dia. lines costing $95,000,000 are expected to deliver a daily total of 300,000 barrels, or 12,600,000 gallons, of crude oil.

Mr. Ickes warned however that the new flow would mean little in the way of pleasure driving gasoline for the East. "Let us not, in the knowledge that the Big Inch is ready to flow new quantities of oil into the East, plead for an increase in pleasure driving at the expense of an increase in the power of our attack," he said.

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Former restrictions eased on some irrigation work

President Roosevelt has signed a bill which authorizes substitution of private labor for former WPA and CCC labor, legalizes use of war prisoners, and provides for commencement of work on certain types of public projects before lands have been entirely procured. The act concerns construction of dams and reservoirs for water conservation and utilization projects, and provides further that $2,000,000 of reimbursable funds can now be expended for any one project instead of only $1,000,000 as formerly. Projects must be found justifiable in wartime by serving to promote food production.

The old act, popularly known as the Wheeler-Case Act, was designed especially to utilize WPA and CCC labor. Numerous projects which got under way with use of such labor require for their completion the authorization of private labor, now that the WPA and CCC have been liquidated. The [illegible] enactment which amends the Wh[illegible]-Case Act provides for engaging p[illegible]ate labor and paying for it with nonrein[illegible]ursable funds.

Secretary of the Inte[illegible]or Harold L. Ickes, in a letter to J. [illegible] Bankhead, chairman of the Senate [illegible]committee on Irrigation and Reclamatio[illegible] to which the bill was referred, stron[illegible]y advocated use of prisoner labor. In view of the increasing thousands of wa[illegible] prisoners expected in this country soon, he wrote, "their labor and services could be utilized in the construction of water conservation and utilization projects, carefully selected for geographical locations removed from vital areas." He went on to recommend their utilization.

Under the old law, work could not begin until the necessary lands, or interests in them, had been acquired. Under the new provision, it is necessary only that "sufficient progress" be made in their procurement to indicate the probability that they can be obtained at satisfactory prices. This change will expedite work in connection with irrigation, by putting land under cultivation quickly for raising war food crops.

The increase from $1,000,000 to $2,000,000 permitted for construction of any one project is intended to meet increased costs of construction.

It will now be possible under the new law, to resume work on a number of projects as soon as the WPB gives clearance. Included are six projects which the Bureau of Reclamation had under way in the west using WPA and CCC labor. These were among numerous projects on which WPB last fall issued stop-work orders in order to conserve materials. WPB has since withdrawn such orders on a number of projects. The six projects are: Mancus, Colo.; Rapid Valley, S. D.; Newton, Utah; Buffalo Rapids, Mont.; Mirage Flats, Neb.; and Eden, Wyo.

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Work on three airports stopped by the W.P.B.

Construction of three Civil Aeronautics Administration airports was halted July 13 by the War Production Board in an effort to conserve materials, equipment and manpower. The projects, which would have cost a total of $2,371,179, are as follows: Aurora (Ill.) municipal airport, ($1,200,000); construction of airport facilities at Purcell, Okla. ($630,000), and construction of a two-runway airport and taxiways at Beaver March, Ore. ($541,179).

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Relief for congested centers planned in major war production areas

Committee for Congested Production Areas begins to coordinate construction of needed utilities at San Francisco, San Diego, Hampton Roads, Newport, R. I., and Portland, Me.

The Committee for Congested Production Areas, recently established by the federal government with Corrington Gill as director, has begun to coordinate activities relating to needed services in three seacoast areas, and plans to start work in two others in the near future. Matters which are to be the direct concern of the committee are housing, provision of retail centers, transportation, access to production plants, water supply and sewage disposal. The committee was set up as a result of investigations carried on by the committee on naval affairs of the House of Representatives, which found that the war effort was being impeded through congestion in such areas as Portland, Me., Hampton Roads, Va., San Diego and San Francisco, Calif., and Newport, R. I.

For the first two regions designated as congested production areas, Russell S. Hammel of Richmond, Va., has been appointed representative of the committee for the Hampton Roads area, and Randall M. Dorton, Monterey, Calif., for the San Francisco Bay region.

At Portland, a member of the committee's staff is at work, in lieu of an area representative, and Mr. Gill contemplates assigning staff members to San Diego and Newport.

Proposed construction

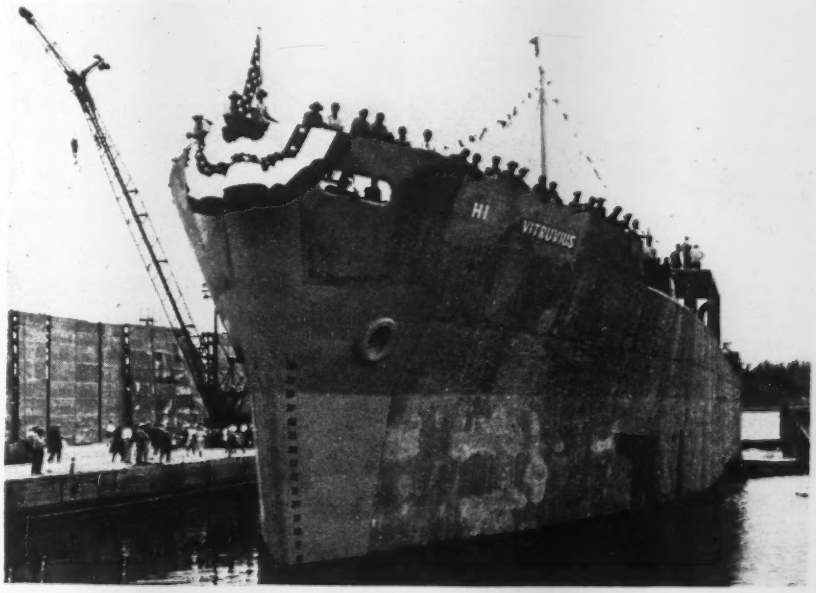
Immediate construction of another tube under the estuary separating Oakland and Alameda is one of the things recommended by the House subcommittee for the San Francisco Bay area. The Portland report makes recommendations fairly typical of the needs in other sections. It recommends conversion of certain downtown property into dwelling units as a partial solution to the problem of applying adequate family accommodations.

The committee recommends that the Navy and the Maritime Commission make their grading equipment available for grading streets in the housing areas. It also recommends construction of additional buildings for the Maine General hospital, completion of one school and construction of another temporary one, and additional housing for the Navy. A study of sewage disposal problems is recommended; as are use of Lanham Act funds for sewage and garbage disposal projects, rebuilding of two outlet sewers declared unsatisfactory for the past 15 to 20 years, redirection of a sluiceway, and additional facilities for disposal of sewage from the government housing projects of Red Bank Village, Long Creek Terrace, and a trailer camp; and removal of open sewers and effluent from certain septic tanks.

Committee personnel

Members of the Congested Production Areas Committee are: Harold D. Smith, director, Bureau of the Budget, chairman; Robert P. Patterson, Under Secretary of War; Ralph A. Bard, Assistant Secretary of the Navy; Donald M. Nelson, chairman of the War Production Board; Maj. Gen. Philip B. Fleming, administrator, Federal Works Agency; John B. Blandford, Jr., administrator, National Housing Agency; and Paul V. McNutt, chairman, War Manpower Commission.

Mr. Gill took over as director of the committee after filling a number of government positions. In 1931 he was economist and statistician with the Federal Employment Stabilization Board, and from 1933 to 1941 was assistant commissioner of the Federal Emergency Relief Administration. Since then he has served as deputy director of the Works Progress Administration, and during the past year was with the War Department as consultant to the Secretary of War, under General Somervell.



First powered concrete ship of World War II

Three self-propelled concrete vessels were floated from a basin at Tampa, Fla., July 15, the first powered concrete boats of commercial size completed in this war. The U. S. Maritime Commission's designation of self-propelled "barges" rather than ships reflects the lack of enthusiasm for concrete shipbuilding consistently shown by the building agency.

These vessels are first of a contract for 24 dry cargo boats being built in three basins, each 1,200 ft. long. Basins accommodate three ships so that nine ships may be constructed at one time. The basins are of thin section concrete that is prevented from floating by keeping water level of the surrounding ara low with constantly pumped wellpoints. An article describing the basins and giving the personnel of McCloskey & Co., builders of the basins and boats, appeared in ENR July 15, 1943, p. 152.

The powered barges are about the same size as the towed concrete tanker and dry cargo barges, (ENR June 17 p. 878 and June 24 p. 921) 350 ft. long and about 5,000 long-ton carrying capacity. They are built on forms permanently affixed to the bottom of the basin and "stripped" by admitting water, thus floating the ships.

Exterior forms for the side shells were built as "mats" for vacuum processing of the concrete; a rigidly supported plywood form covered with expanded metal mesh, screen wire and non-waterproof duck. The side forms were built in sections for easy removal. Some of them may be seen at the left, set temporarily out of the basin. Bottom and decks of the ship were vacuum treated with portable mats.

After floating the ships are taken to a nearby graving dock for examination and any necessary dressing of the exterior of the hull and for application of anti-fouling paints.

ENGINEERING ABROAD AS SEEN BY ENR EDITORS

Great Britain in Wartime

By Waldo G. Bowman

Editor, Engineering News-Record

SOMEWHERE IN ENGLAND, June 25. In these times of salvage drives and scrap collections, even the left-overs from an editor's notebook—those impressionistic or factual jottings that have nothing to do with the principal subject being studied—are often too good to be consigned to the wastebasket. Such at least is the reasoning that forms the excuse for the following comments on Britain in wartime. They are based on notes made during trips to American military construction projects that have necessitated driving over about 1,500 miles of rural roads and through dozens of British cities and towns, as well as travelling on British railways. They carefully avoid the economic and political and merely record some of those commonplace things that an engineer or construction man might be expected to notice.

Roads stand up under war traffic

British rural roads excite admiration and wonder. Constant military maneuvers, involving long convoys of trucks, tanks and mobile guns should rut and ravel their tar-macadam surface, but no signs of distress are visible. Even on the curves, which seem to be encountered every two or three hundred yards, there is no evidence of shoving or surface wear. Good and constant maintenance by local authorities is no doubt a contributing influence, but the fact that maintenance crews are only infrequently encountered suggests another reason—age. Many British rural roads have followed their present alignments for centuries. Cromwell or even Caesar may have started the consolidation of their bases, and several generations of maintenance crews have built up the pavements until thicknesses are substantial. The action of British roads under wartime traffic lends support to the view of modern roadbuilders that a road is only as good as its base. They set a standard for those interested in soil stabilization and subgrade consolidation to shoot at.

Except along the coasts the war seems almost as remote in the British rural districts as it does in the United States. Yet there is ample evidence left of the Herculean efforts that were made to repel the invasion that seemed inevitable in the dark days of 1940-41. Concrete pill boxes stand menacingly at road intersections, and barricade materials are visible at strategic points. These latter may be in the form of huge precast concrete cylinders or cones, or they may be triangular frames of I-beams designed to be set into holes in the roadway, now closed by cast iron covers, surprisingly enough with the manufacturers' name often cast into the non-skid surface just as in the sewer or conduit manholes familiar on our city streets.

OTHER REPORTS COMING

Due to the uncertainties of air mail from England and possibly to delays in clearing through the censors, this general comment by Mr. Bowman on war conditions in England came through before three reports mailed at an earlier date.

Since receipt of this report, two more have come. They are "Building Bases for Bombing from Britain" and "Military Huts and Structures at American Installations in Britain." These reports will be published in early issues—Editors

Open fields that might be used for aircraft landings have their own forms of obstructions. There may also be precast concrete units or they may merely be logs.

Also in evidence are the inevitable barbed wire barricades, both in roads and fields. As one British army officer remarked "There is enough bloody wire about to keep the mice out let alone the Germans!"

Precautions against air attack

Air raid shelters are numerous in the towns, being usually low rectangular brick buildings with concrete slab roofs, usually about 10 in. thick. Here and there a tremendous slab of perhaps 30 in. thickness will have been built, but in general the misguided notion that shelters can be made to resist direct hits does not prevail.

Bombed or fire wrecked buildings present different aspects. In some cities the debris has been left where it fell, only the streets being cleaned, while in others it has all been carted away. So effective a clean-up job has been done in London that the wrecked buildings often present a neater appearance than their intact neighbors.

One of the most constant reminders of war in the cities is the presence of static water-supply tanks, placed at strategic points for firefighting purposes. These may be circular or rectangular steel tanks set in traffic circles or other open spots, they may be earthen dike reservoirs in parks, or they may be bricked up cellars of wrecked buildings. In the latter case, neat brick walls, about shoulder high, are carried above the sidewalk to keep persons from falling in, and frequently, life preservers are handy to rescue children whose curiosity leads them on prohibited inspections.

The most familiar signs in British cities today are composed of the letters E.W.S. (Emergency Water Supply), and a notation that this tank holds 15,000 or 150,000 gal. as the case may be. There may also be instructions as to valve operation on the pipelines that have been laid along the curbs to fill the tanks and to provide frequent hose connections for the firefighters.

Everything stops for tea

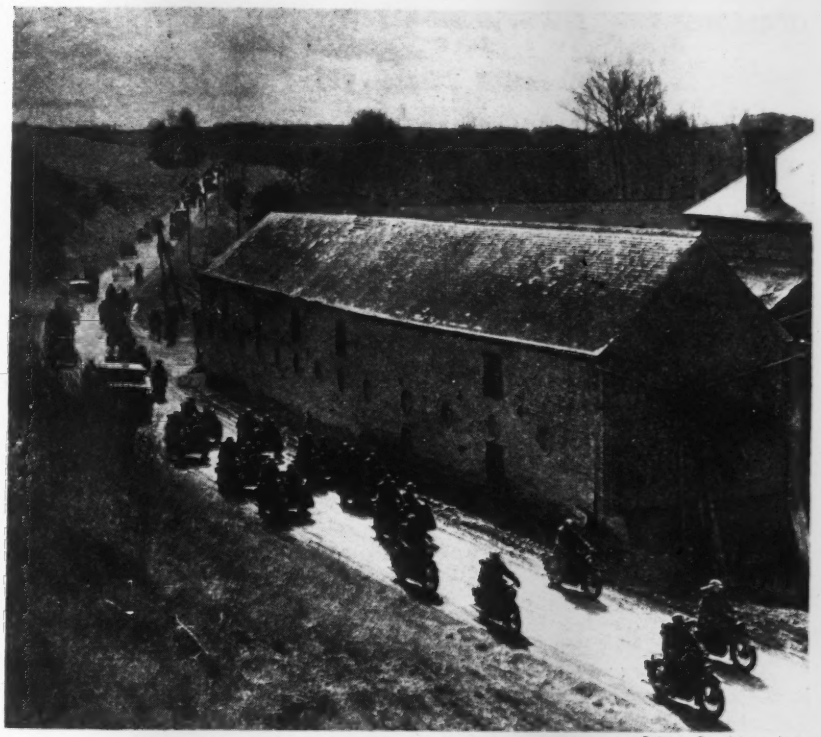
Tea stories are a dime a dozen among Americans in Britain. One relates to an airdrome construction job where the British habit of stopping for tea in mid-morning and mid-afternoon was not taken into account in the scheduling of materials supplies. Truck unloading crews and facilities at the aggregate pile and cement dump were provided for uniform spacing of truck arrivals. But about

a.m. and again at 3 p.m., there would a lull during which no trucks ap- red, followed by the arrival of a ver- le convoy. The drivers had stopped tea, and they like to congregate at the roadside inn. The only improve- t that could be effected was to re- that they get their tea wherever happened to be at teatime rather make a full scale party of it at the s Arms. This didn't do away with lull, but it did keep the truck ar- ls spaced so that the unloading crews ld handle the traffic.

Steel and iron appear plentiful

Driving about Britain for the first time American will be surprised at the unt of steel being used in construc- and the cast iron pipe that is lying t on every job. He will also note that the most temporary buildings are of k and concrete. There are practically timber structures because, while ain can marshal a good many mil- s of lineal feet of timber in hedge- s, it can't translate it into useful d feet. Sometimes, logs are seen be- transported along the highway, but are so crooked and full of knots nothing less than a war emergency ld possibly have got them out of the ds. Britain has steel, it has cement, it is one vast brickyard. Its struc- s like ours are built of the most tiful materials available.

ow and then one gets fed up with king at war construction and stops to ire one of England's famous cathe- s, products of construction craftsmen the 12th and 13th centuries. Ely, ucester, Salisbury and St. Paul's are all that has been claimed for them, but one which most guide books mistakenly omit is Tewkesbury Abbey. Here, a nave, all of 500 ft. long, but only about 35 ft. wide, is lined with cylindrical stone columns 8 ft. in diameter that rise nearly 100 ft. to the vaulted stone roof. Such massive construction has a spectacular quality quite as inspiring in its way as the more graceful fluted elements of the true Gothic are in theirs. A Nissen hut, after a visit to Tewkesbury, is a pretty sorry structure.



British Combine photo

British roads are standing up remarkable well under military maneuvers and long lines of heavy transport. The secret appears to lie in their substantial bases.

Women drive construction trucks

There is a best seller waiting to be written by an American army officer entitled "British Women I Have Followed." It would be a straightforward account of the British Women drivers of American military cars—their lives and experiences, since the beginning of the war. One, whose record seems pertinent here, is a youngster who was attending a private school in Switzerland when the war broke out. She came home to take a job as a motor cycle dispatch rider, but finding this too tame transferred to cross country truck driving and then to driving an aggregate truck on airbase construction. For nearly two years she wheeled a three ton aggregate truck on as many as three 70-mile round trips a day, and often had to help shovel off the load when the body hoist failed to work. On her off time she frequents farmers' pastures looking for saddle horses she can buy and send to her father's estate. Now, instead of hauling "hogging" as British pit-run gravel is called, she may draw a general, a captain or even a war correspondent to drive around. I gathered she would rather drive a lorry.

British Combine photo

c water-supply tanks in the cities are an ever-present reminder of the pos- ty of air attack. Some are made in cellars of bombed buildings, others are lar or rectangular tanks in open spaces.

Funds for postwar highway planning provided in new federal-aid law

President approves amendment to highway act to make $50,000,000 available for postwar plans. More road work in prospect.

Expenditure of $50,000,000 by the Public Roads Administration in cooperation with the state highway departments for surveys, plans and specifications for postwar highway projects is authorized by an amendment to the Federal Aid Highway Act approved by the President on July 13. The amendment also prevents the reapportionment of unexpended balances of federal-aid funds not obligated by the states as of July 1, 1943. Because of war restrictions, the states have not been able to use the fund apportioned to them. The new act makes these funds available to the states until one year after the termination of the emergency declared by the President on May 27, 1941. According to estimates of the American Road Builders Association, these funds amount to $68,000,000 for the fiscal year that ended June 30, 1943, and $103,000,000 for the year ending June 30, 1944.

Planning funds

The $50,000,000 is to be used "for engineering and economic investigations of projects for future construction and for surveys, plans, specifications, and estimates for postwar highway improvements." This fund is to be apportioned according to the regular federal-aid formula, but in no case may the amount going to any state exceed the amount of the state's unobligated federal-aid funds. The amounts allocated to each state are given in the accompanying table.

This $50,000,000 fund for postwar highway plans contains no provision for purchase of rights-of-way, but the term "construction" as used in the Federal Highway Act has been broadened to include acquisition of right-of-way, hence the state highway departments now can use federal-aid fund allocated to them in part payment for rights-of-way.

The sum of $10,000,000 is made available to the Commissioner of Public Roads for repair of roads and bridges damaged by floods, hurricanes, earthquakes or landslides. The commissioner also is authorized to reimburse state highway departments for repair and rehabilitation of roads substantially damaged by the Army, Navy or other agency of the government or by contractors employed by the government in the prosecution of the war or national defense. Amounts due the states as determined under this section shall be certified to Congress, provided claims for reimbursement shall have been filed within 30 days following the damage or termination of the maneuvers.

Expenditure of $27,500,000 for roads to sources of critical war materials is authorized.

Freeing of toll bridges

States which have built or acquired toll bridges and shall have opened such bridges to traffic free of charge before Jan. 1, 1945, are entitled to reimbursement of 50 percent of the "current reasonable value of the physical property exclusive of right-of-way," provided the bridge was built to standards approved by the PRA. When a state cannot acquire a bridge promptly, the Federal Works Administration may acquire it by condemnation or otherwise on certification from the Secretary of War or Secretary of Navy that freeing the bridge will aid the war effort; provided the state concerned ultimately will assume half the cost.

The act states that none of the funds "shall be impounded or withheld from obligation or expenditure by any agency or official unless the War Production Board shall certify that the use of critical material for additional highway construction would impede the conduct of the war."

APPORTIONMENT OF $50,000,000 PLANNING FUND

(To be matched by states)

Alabama	$1,073,685	New Hampshire	$ 250,000
Arizona	737,698	New Jersey	651,596
Arkansas	879,398	New Mexico	829,669
California	2,052,843	New York	2,469,884
Colorado	920,452	North Carolina	1,235,019
Connecticut	318,057	North Dakota	765,365
Delaware	250,000	Ohio	1,802,996
Florida	736,147	Oklahoma	1,162,017
Georgia	1,287,986	Oregon	849,827
Idaho	634,020	Pennsylvania	2,093,567
Illinois	2,020,185	Rhode Island	250,000
Indiana	1,232,715	South Carolina	693,473
Iowa	1,275,186	South Dakota	804,186
Kansas	1,293,058	Tennessee	1,086,546
Kentucky	955,360	Texas	3,252,287
Louisiana	762,633	Utah	576,142
Maine	444,348	Vermont	250,000
Maryland	415,242	Virginia	936,400
Massachusetts	670,583	Washington	807,890
Michigan	1,556,139	West Virginia	563,183
Minnesota	1,380,023	Wisconsin	1,231,947
Mississippi	919,522	Wyoming	638,436
Missouri	1,519,138	Hawaii	250,000
Montana	1,037,280	District of Columbia	250,000
Nebraska	1,020,507	Puerto Rico	253,006
Nevada	654,359		
		Total	$50,000,000

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Road break-up threatened under wartime traffic

Highway officials at a regional conference at Atlanta, Ga., on June 23 asserted that a breakdown of highway facilities under stress of wartime conditions is threatened in that area.

Thomas H. MacDonald, United States commissioner of public roads, warned the delegates that means of averting breakdown of highway transportation must be found or the war effort will suffer.

Highway officials from Georgia, Mississippi, South Carolina, North Carolina, Florida and Tennessee agreed in messages to the delegates that shortages of both manpower and materials were becoming extremely serious.

• • •

WPB establishes service to advise builders

A Construction Advisory Service has been established by the WPB. It is an expansion of services previously available for advice to manufacturers and builders on the basis of preliminary drawings and approximate listings of building materials before formal applications to begin construction are submitted. Applicants, their architects, engineers and other employees may avail themselves of these services before preparation of final drawings and specifications.

Inquiries from prospective applicants for permission to construction industry facilities have multiplied within the last few weeks, the WPB Facilities Bureau reports. Due to the general curtailment in facilities construction, companies desiring new facilities have been seeking information as to what now governs the granting of authority to begin construction and to obtain appropriate priorities.

These services accelerate construction and operation of essential projects. Inquiries regarding them should be addressed to Howard W. Cutler, Chief, Construction Advisory Services, Project Division, Facilities Bureau, War Production Board, Washington, D. C.

Shasta diversion tunnel carrying entire river flow

The diversion tunnel at Shasta Dam is in full use with the entire flow of the Sacramento River going through it, the United States Bureau of Reclamation announced July 15.

Rising blocks of concrete in the spillway section turned part of the river through the tunnel on June 26 and concentrated construction activities in that section have brought the reservoir to a level permitting the tunnel to form a permanent channel for the entire river flow.

With the river in the tunnel, a cofferdam across the river bed above the tunnel outlet will prevent backwater from interfering with placing the spillway apron. The apron is a thick layer of concrete placed over the river bed area at the foot of the spillway to prevent the action of water from eroding the rock at the downstream toe of the dam.

With more than five and one-half million cubic yards of concrete in place Shasta Dam is nearly 88 percent complete. The pouring schedule on mass concrete will be completed within a year if the present rate of placement is maintained. Since the first concrete was placed in July 1940, Pacific Constructors, Inc., the general contractor, has manufactured and placed an average of nearly 156,000 cubic yards per month.

• • •

Canadian survey work continues despite war

In spite of the war, Canada is continuing this summer with survey work in the outlying parts of the Dominion, according to an announcement of T. A. Crerar, Minister of Mines and Resources, in whose department the Geodetic Survey branch is administered. Two groups of triangulation survey parties are converging on the Strait of Belle Isle, one working along the north shore of the gulf of St. Lawrence and the other on Newfoundland. This work is expected to be completed in the fall.

Four other parties will operate on the north shore of the St. Lawrence, making baseline measurements, triangulation and astronomical work. In the northwestern Hudson Bay area, two parties will be at work, and another party further to the west, establishing astronomical observations, latitudes and longitudes for map making purposes. In the Yukon Territory, the Geodetic Survey is undertaking primary triangulation measurements jointly with the United States Coast and Geodetic Survey, in the vicinity of the Alaska Military Highway.

New terminal in service at Montreal

A new passenger terminal for the Canadian National Railway System in the heart of Montreal was put into service on July 14. Opening of this new station astride the deep cut where one of the CNR lines emerges from a tunnel under Mt. Royal marks the culmination of work begun in 1929 before the financial depression. Plans laid in that era of prosperity were much more comprehensive than the project now brought to completion.

A large amount of new track construction was involved in the original scheme to provide better railway lines through and around the city and to eliminate many grade crossings. New freight terminals also were proposed. A projected passenger terminal in the heart of the city's business district was to handle all passenger traffic and was designed to be below ground in a wide cut over which extensive air-right development would be possible.

Work on that project was suspended after about one million cubic yards of earth and rock had been excavated from the passenger-terminal site and after part of a viaduct from the terminal area across the low lying part of the city to Victoria Bridge had been completed.

In 1939, work was resumed and has been continued on a greatly reduced scale since that time. The viaduct approach has been completed, including a connection to permit trains coming into the old Bonaventure Station from the west to come into the new station over the viaduct, thus eliminating many grade crossings.

The station itself is on a much smaller scale than the original scheme. It stands in the open cut made for the larger project, access being from streets that are carried across the cut as viaducts at different levels. The whole structure is characterized by simplicity, both in structural detail and in layout. Provision has been made in the layout for development of the air rights at some future date. Other C.N.R. passenger stations in the city are to be continued in service on a restricted basis.

C. B. Brown, consulting engineer, Canadian National Railways, has been in charge of the project since its inception.

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Colorado and Wisconsin adopt retirement systems

State-wide retirement assistance for municipal employees recently has been adopted by Colorado and Wisconsin legislatures, according to the American Municipal Association. Colorado's new retirement law provides for extension of the state employes' retirement system to all municipal, county and school district employes. Wisconsin's new statute provides for establishment of an optional statewide retirement system for municipal employes.

The new Canadian National Railway terminal in Montreal occupies part of the deep cut made for a much larger terminal development that was projected in 1929.

JOBS OF THE WEEK

HOUSING, New Jersey

Public Housing Authority, New York, N. Y., received lowest bid for housing from John A. Johnson Sons, Brooklyn, N. Y., on base bid one, $541,000; base bid two, $759,000. Van Nuys and Gruzen, and Hugh A. Kelly, Jersey City, are architects.

BUILDINGS, Ohio

Robert H. Evans & Co., Columbus, O., have been awarded the contract for the construction of addition to temporary frame building, in Franklin County by U. S. Engineers, Cincinnati, O. The estimated cost is $500,000 to $1,000,000.

PAVING, New York

U. S. Engineers, New York, N. Y., awarded a contract for paving in Orange County to John Arborio, Poughkeepsie, N. Y. Cost from $500,000 to $1,000,000.

FACTORY, Illinois

Norris Construction Co., Chicago, Ill., will build additional factory facilities for Ingalls-Shepard division, of Wyman-Gordon Co., Harvey, to exceed $1,000,000 in cost. Schmidt, Garden & Erikson, Chicago, Ill., are architects. Defense Plant Corp. will finance.

HOSPITAL, Charleston, S. C.

Medical Society of South Carolina, Charleston, received lowest offer from Fred N. Thompson, Raleigh, N. C., to construct seven-story, fireproof building for Roper Hospital. The low bid was $503,000. Samuel Hannaford & Sons, Cincinnati, O., are the architects. Electrical work bid on project was submitted by All State Electric Co., Winston Salem, N. C., $65,709; heating from Poe Hardware & Heating Co., Greenville, S. C., $102,881; plumbing from L. E. Stevens, Cincinnati, O., $108,729; and elevators from Otis Elevator Co., Atlanta, Ga., $48,252.

HOSPITAL ADDITION, St. Albans, N. Y.

Bureau Yards & Docks, Navy Dept., Washington, D. C., awarded a contract to build an addition to the Naval Hospital to Vermilya-Brown Co., New York, N. Y., at a cost of $990,810.

AIRPORT, Edmonton, Alta.

Coast Construction Co., Ltd., Vancouver, B. C., has been awarded a contract to construct a new airport and to improve present one at an estimated cost of $6,500,000. The Department of National Defense for Air, Ottawa, Ont., let the contract.

HOUSING, Georgia

Ray M. Lee, Atlanta, Ga., was lowest bidder for housing when Public Housing Authority, Atlanta, Ga., opened bids on Proposal One, $926,401, and Proposal Two, $930,491. Ellamae Ellis League, Macon, is architect.

HOUSING, Mississippi

Algernon Blair, Montgomery, Ala., was the lowest bidder for housing, when Public Housing Authority, Atlanta, Ga., opened bids at $967,418. Feemster, Striger & Malvaney, Jackson, Miss., are the architects.

HOUSING, Georgia

Public Housing Authority, Atlanta, Ga., awarded a contract for constructing war housing to E. T. Newton, Hattiesburg, Miss. The estimated cost is $2,869,999. Abreau & Robeson, Atlanta and Brunswick, Ga., are the architects.

SUPERSTRUCTURE FOR LOW LIFT PUMPING STATION, Chicago, Ill.

Department Public Works, City of Chicago, City Hall, awarded a contract for the superstructure of a low-lift pumping station and chemical building to S. N. Nielson Co., Chicago, Ill., at $954,000.

APARTMENT, Mobile, Ala.

Evans Construction Co., Mobile, Ala., was awarded a contract by D'Iberville Apartments, Inc., Mobile, Ala., for apartments, to cost about $1,000,000. Harry Pemberton, Birmingham, Ala., is the architect.

HOUSING, Maryland

John A. Johnson & Sons, Brooklyn, N. Y., have been awarded a contract for dwelling units and community buildings by the Public Housing Authority, Washington, D. C. at $585,000. F. L. Moehle & Associates, Baltimore, Md., are the architects.

HOUSING, Arizona

Public Housing Authority, San Francisco, Calif., received the lowest bid from Elder R. Morgan & Co., San Marino, Calif., for housing, at $547,000. Gilmore & Varney, Phoenix, and Paul R. Williams, Los Angeles, Calif., are the architects.

Note—Additional bidding and contract news on many projects large and small appear in the Construction News section beginning on page 11.

Eight-hour law suspended for public works labor

An executive order signed by President Roosevelt on July 8 suspends the eight-hour law as to laborers and mechanics employed in public works, and permits the payment of time and a half for overtime in excess of eight hours. Previously, work for these employees was limited to 8 hours and no overtime was permitted. The order applies to the Department of the Interior activities on power, irrigation and other construction in continental United States and its activities in Alaska.

"The efficient and speedy accomplishment of the department's war activities requires that laborers and mechanics be employed more than eight hours a day," said Secretary Harold L. Ickes of the Department of the Interior. "This is true particularly as to the installation of generating units in the Bureau of Reclamations' power plants to meet schedules set by the War Production Board, but is of equal importance in connection with the development of irrigation projects in the war food program I have recommended. It also applies to the construction of transmission lines by the Bonneville Power Administration, work of other agencies of the Department on the mainland, and the Division of Territories in Alaska."

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Komora leaves TVA for work on Peruvian project

Andrew M. Komora recently left the Tennessee Valley Authority to accept a position as assistant engineer-director on the Central Hidroelectrica del Canon del Pato project 250 miles north of Lima, Peru. This is a hydro-electric development on the Rio Santa that will produce 100,000 kw. of continuous power from a 1,300-ft. head obtained by diversion through a five-mile tunnel. Barton M. Jones, also a TVA "alumnus," heads the project.

Mr. Komora has recently been in charge of installation of additional generating units at Wheeler, Wilson and Pickwick dams of the Tennessee Valley Authority. He worked on design of Hiwassee Dam and on construction of Norris Dam. Previous to TVA work Mr. Komora was employed on design and construction of hydro and steam generating plants for various public utilities.

More contractors' idle equipment sought for non-construction uses

WPB holds conferences with American Road Builders Association and Associated General Contractors to find ways to induce contractors to sell idle machines urgently needed elsewhere.

The Used Equipment Section of the War Production Board, in its capacity as middleman between civilian needs and sources of available used construction equipment, is taking new steps to stimulate the flow of a large amount of earth moving equipment away from the construction industry to such activities as logging, mining, and farming, and a variety of other work.

Although the used equipment section has succeeded in getting contractors to sell or rent 9,000 pieces of equipment to prospective purchasers, many more are reluctant to let their equipment go. As a consequence the Used Equipment Section arranged three conferences for July. One is scheduled for July 22 with state, county and municipal officials. Other conferences have been held with committees of the American Road Builders Association, the Associated General Contractors, and the Used Construction Machinery Industrial Advisory Committee, which has been functioning for about three months. The committee is made up of dealers and distributors who buy up equipment for resale.

A stumbling block at present is the amount of margin between the ceiling price which the contractor can ask for used equipment, and that at which the dealer can resell. Distributors claim they cannot make a profit selling at 85 percent of the original cost when they have to sell with a guarantee after buying at 55 percent and standing the cost of repairs.

The 9,000 pieces of equipment that already have been sold or rented by contractors for non-construction work represent an original value of from $60,000,000 to $70,000,000.

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Ample water now assured for Detroit suburbs

A dozen war plant communities along the northern rim of Detroit, Mich., are assured an ample water supply this summer as the result of the combined efforts of WPB's Office of War Utilities, the Federal Works Agency and other federal and municipal agencies. Installed in record time, one or two of four pumps of 40,000,000-gal. daily capacity were scheduled to go into operation on July 20, to be followed at short intervals by the remaining pumps.

A survey made by the Office of War Utilities earlier this year disclosed that water requirements of these war plant communities had become so heavy that critical water conditions faced them this summer if they were forced to rely on their present facilities. The difficulty was lack of pressure rather than an inadequate water supply at the source.

The OWU determined that it was impractical to lay sufficiently large pipes to serve these communities but hit upon another solution. Located in Highland Park, a suburb within Detroit but much closer to the war plant communities than the main Detroit pumping station, was a 40,000,000-gal. reservoir being used for standby or reserve. Large water mains of the Detroit system passed close by, and the OWU engineers worked out a plan to connect this reservoir with the large water mains and thus during daytime pump water from the Highland Park reservoir to the war plant communities, the reservoir to be filled at night with water from the Detroit system.

Highland Park agreed to rent its reservoir to the government. The City of Detroit agreed to furnish Highland Park with necessary standby service. The difficult problem of obtaining pumps was solved when the City of Philadelphia agreed to lend four new 40,000,000-gal. pumps which were then being completed for its own water system. (ENR, June 24, p. 920). The Federal Works Agency agreed to finance and construct the project. Suppliers of equipment and services cooperated fully. The War Manpower Commission, the U. S. Employment Service, and labor unions in the Detroit area furnished adequate labor supply to do a rush job with the result that a project that even in normal times would have required at least six months was built in eight weeks.

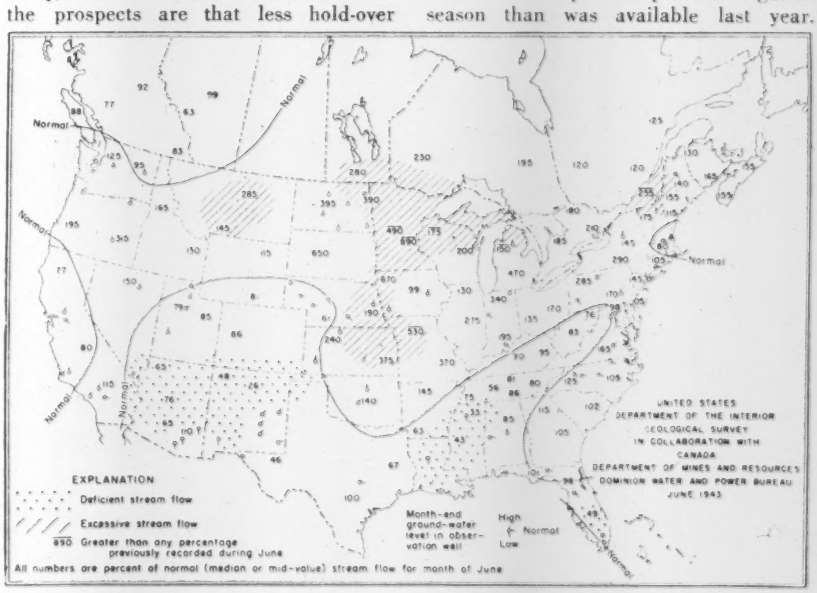
Excessive stream flow continued in June

The general pattern of stream flow and groundwater levels during June was essentially the same as during May except that the belt of excessive stream flow shifted northward. There was above-normal stream flow in the area tributary to Lake Winnipeg from the south and southeast, the St. Lawrence and upper Missouri and Mississippi River drainage basins, and the Atlantic seaboard from the Maritime Province to South Carolina. June records were broken in Minnesota, Wisconsin, Michigan and Quebec.

Excessive but generally non-record-breaking floods occurred in Montana, Wisconsin, Minnesota, Iowa, Nebraska, Kansas, Manitoba, Ontario, Quebec, Vermont and Maine.

The water situation is generally unfavorable in the southwestern and southern states, Arizona to Florida. Seasonal rains have partially relieved the droughts in Arizona, New Mexico and Florida.

Reservoir storage for irrigation is apparently sufficient to meet demands of the present season but in the Southwest the prospects are that less hold-over will be carried past the present irrigation season than was available last year.


Normal
EXPLANATION
Deficient stream flow
Excessive stream flow
850 Greater than any percentage previously recorded during June
Month-end ground-water level in observation well
High
Normal
Low
All numbers are percent of normal (median or mid-value) stream flow for month of June
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY IN COLLABORATION WITH CANADA DEPARTMENT OF MINES AND RESOURCES DOMINION WATER AND POWER BUREAU JUNE 1943

OBITUARY

Arthur Boniface, 64, for 21 years village engineer and for 2 years village manager of Scarsdale, N. Y., died there July 18. Born in Hastings, England, he studied engineering at British naval schools, and came to this country in 1901. While serving with the Rapid Transit Subway Construction Company he was engineer in charge of the construction of the Battery Park section of New York's Seventh Avenue subway in 1914.

Hollis Rinehart, 72, of Charlottesville, Va., died July 12. He was educated at Staunton Military Academy. In early life he was associated with his father's firm in the building of the Maysville & Big Sandy Railroad, now the Chesapeake and Ohio. For many years he was a member of the firm of Rinehart & Dennis Co., which built various other railroads, waterworks and hydroelectric plants in various parts of the country, and constructed Camp Lee for the United States Government during World War I.

W. Howard Fairchild, 70, of Simcoe, Ont., former city engineer and manager of the Public Utilities Commission of Galt, Ont., died on July 4.

Samuel B. Milligan, 57, structural engineer for the Ohio State Highway Department, died July 5 at Columbus, Ohio. He was a member of the National Society of Professional Engineers.

A. W. Walker, 61 civil and reclamation engineer at Fairfield, Mont., died recently at Great Falls. He was superintendent of the Sun River reclamation project.

George F. West, 80, long identified with the development of water utilities at Leadville, Co., Springfield, Mo., Kankakee, Ill., Sharon, Pa., and Biddeford and Saco, Me., died at Portland, Me. July 12.

Edward L. Gibbons, 75, of Cornwall, N. Y., who superintended the cutting of the Storm King Highway out of the face of Storm King Mountain on the west shore of the Hudson River, died July 10.

R. L. Brown, 61, civil engineer for the Ohio Highway Department, died July 10, in Columbus, Ohio. For 35 years he had served in an advisory and executive capacity with federal, state, county and municipal officials in regard to public construction, maintenance and all phases of structural work and traffic regulations for highways.

Andrew R. Thompson, 58, who was engineering inspector for the new Dauphin County courthouse, Harrisburg, Pa., died recently. Mr. Thompson was overseas with an engineering construction division in the First World War, having been a first lieutenant, engineers, in the Officers Reserve Corps. He was in the Corps that made the Panama Canal surveys, 1909 to 1911, and later aided in a big dredging project north of New Orleans.

J. W. Hassemfratz, 71, a member of the Los Angeles City Engineer's office for many years, died June 30. Hassemfratz first entered the City Engineer's office in 1907 and from 1908 to 1913 was employed on the construction of the Los Angeles aqueduct. Later he was in charge of sewer construction for the city. He retired in 1940.

W. R. Thomasson, 51, of Little Rock, Ark., engineer for the Arkansas Highway Department, died June 28.

CONTRACTS AND CAPITAL

Civil engineering construction in continental U. S. totals $48,969,000 for the week. This volume, not including the construction by military combat engineers, American contracts outside the country, and shipbuilding, is 53 percent below a week ago and 67 percent below the corresponding 1942 week.

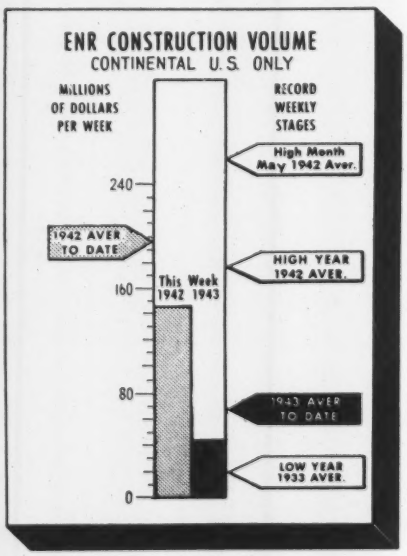
Private construction is 63 percent below last week and 54 percent below the 1942 week. Public construction is 51 percent below last week and 67 percent below the same week last year. Federal construction at $36,917,000 compares with $84,425,000 a week ago and $128,487,000 a year ago.

The current week's construction brings 1943 volume to $2,021,386,000, an average of $69,703,000 for each of the 29 weeks. On the weekly average basis, 1943 construction is 63 percent below the $5,847,020,000 for the 30-week period last year. Private construction, $248,981,000, is 34 percent lower than last year, and public work, $1,772,405,000, is down 66 percent when adjusted for the difference in the number of weeks.

In the classified construction groups, gains over a week ago are in commercial and industrial buildings. Waterworks and earthwork and drainage show a slight gain over last year. Subtotals for the week in each class of construction are: waterworks, $1,473,000; sewerage, $765,000; bridges, $333,000; industrial buildings, $1,804,000; commercial buildings and large-scale private housing, $3,166,000; public buildings, $2,844,000; earthwork and drainage, $568,000; streets and roads, $6,610,000; and unclassified construction, $13,381,000.

New capital for construction purposes for the week totals $2,219,000 and is made up entirely of state and municipal bonds.

New construction financing for the 29 weeks of 1943, $2,920,234,000, compares with $9,493,390,000 for the 30-week period in 1942.



CONTRACTS

Continental U. S. Only

(Thousands of dollars)

	Week Ending July 23 1942	July 15 1943	July 2 1942
Federal	$128,487	$85,425	$36,9[illegible]
State & Municipal	8,717	5,106	6,9[illegible]
Total public	$137,204	$90,531	$43,8[illegible]
Total private	10,967	13,484	5,0[illegible]
TOTAL	$148,171	$104,015	$48,8[illegible]
Cumulative 1943 (29 weeks)			$2,021,3[illegible]
1942 (30 weeks)			$5,847,0[illegible]

Note: Minimum size projects included are: Waterworks and waterways projects, $[illegible]; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

NEW PRODUCTIVE CAPITAL

	1942 30 weeks	Cumulative 1943 29 weeks
NON-FEDERAL	$526,492	$266,3[illegible]
Corp. Securities	157,619	13,3[illegible]
State & Mun.	158,754	90,9[illegible]
R.F.C. loans	127,419	9,0[illegible]
FPHA loans		3,1[illegible]
R.E.A. loans		20,0[illegible]
Fed.-Aid Hwy.	82,700	128,0[illegible]
FEDERAL	$8,966,898	$2,653,8[illegible]
TOTAL CAPITAL	$9,493,390	$2,920,2[illegible]

ENR INDEX NUMBERS

Index Base = 100		1913	1[illegible]
Construction Cost	July '43	289.92	139.[illegible]
Building Cost	July '43	327.89	124.[illegible]
Volume	June '43	204.	9[illegible]

CONSTRUCTION REPORTS

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York

ELSIE EAVES, Manager *SCOTT McLEOD, Statistician*

(Daily service also available—Write for details)

WATER SUPPLY

POSED WORK

Y., Lyndonville—Village Bd. approved ,000 bond issue, imprv., enlarging munici- water intake at Shadigee.

., Newark—City Council passed legislation issuance of notes in anticipation of bonds imprv. municipal water works, incl. addnl. ns, equipment, etc. $190,000.

Tex., Houston—Jno. N. Edy, city mgr., imprv. water sys., incl. dam and reservoir San Jacinto River, main line into city distr. sys. for plant production area, ,000,000 for next 2 years, $16,000,000 ad- nal over period of years thereafter. Ma- y before 1/1/44. W. W. Horner, Shell g., St. Louis, Mo., and Henry E. Elrod, City Hall, Houston (consultants) engrs.

Va., Virginia Beach—Superv. Eng., Town Hall, completed preliminary plans water ply sys., $500,000. Applying for FWA funds. ley & Hansen, 6 N. Michigan Ave., Chi- Ill., engrs.

Vashington—U. S. Eng., 800 3 Ave., Seat- Zone 4, well, Negotiation 645, Pierce Co.

ash., Spokane—A. Lindsay, city water City Hall, watermains to serve housing southwest Spokane. $35,000.

B., Andover—Reservoir, $30,000. Engi- c/o H. B. Wright, Town Hall, engr.

t., Delhi—R. P. Quance, municipality clk., sys., $30,000.

e., Drummondville—Municipality, filtra- plant addn. and remodelling. A. Plamon- 369 Mount Royal Ave., Montreal, engr.

S ASKED

Bids Asked July 27

., Union — Harwood-Beebe Co., engr. rtanburg, pump. station, Div. 2, for City. 3/14—ENR 6/17.

W BIDDERS

alifornia—Fed. Works Agency, 2223 Ful- St., Berkeley, July 14, removal approx. mi. of 36, 40 and 44 in. steel pipe (Corral ow Pineline) Spec. Calif. 4-140, San uin and Alameda Counties, from Macco tr. Co., 815 Paramount Blvd., Clearwater. 27. CD 7/6.

., Wash.—District Comrs., District Bldg., 12, 24 in. diam. trunk watermain from voir in Fort Station Park to Alabama and ols Ave. S.E., from S. E. Dockstader, Inc., ey Bldg., **$135,355.** CD 6/25—ENR 7/1.

NTRACTS AWARDED

Florida—U. S. Eng., 575 Riverside Ave., sonville, Zone 2, water storage reservoir, Co., to Cleary Brothers, Georgia Ave., Beach, under **$50,000.** Awarded 6/27.

Ill., Chicago—Dpt. P. Wks., City Hall, superstructure, low lift pump. station chemical bldg., to S. N. Nielsen Co., 3059 ata Blvd., **$954,000.** CD 5/17—ENR under LB.

Louisiana—U. S. Eng., 300 Bway., Little k, Ark., water wells, Lincoln Parish, to iana Well Co., Monroe, under **$25,000.**

a., New Orleans—City, Sewerage & Water 526 Carondelet St., 9,300 lin. ft. 2 to 6-in. atermains, Contr. 231-W, to Mike Mitch- Sons, 2332 Gravier St., **$14,291. FWA.** 7/1. CD 2/17—ENR 2/25.

ew York—U. S. Eng., 120 Wall St., New Zone 5, imprv. water supply sys., Contr. Eng-4141, Orange Co., to Jas. H. Merritt 299 Madison Ave., New York, under 00.

Y., New Windsor—Town Bd., at office Catherine Nee, town clk., water supply. unset Engineering Co., Pompton, N. J. 00. Bids 7/8.

hio—U. S. Eng., 925 New Federal Bldg., burgh, Pa., 1 story, 27x38 ft., brick pump- , 60x60 ft., rein.-con. reservoir, pump. Cuyahoga Co., to Welso Const. Co., W. Grand Ave., Chicago, Ill., under 00.

nnsylvania—U. S. Eng., Standard Oil Baltimore, Md., installing pump. equip., 174-Eng-2070, Lancaster Co., to R. Z. s, 212 S. 17 St., Phila., under **$50,000.**

D., Pierre—State, water wells, to Sterling k, Redfield, **$15,000.** D. W. Loucks, engr.

xas—U. S. Eng., Fort Sam Houston, addnl. facilities, Bexar Co., to M. F. Pischer n, Milam Bldg., San Antonio, under 00.

Location of ENR Correspondents

Symbols and Abbreviations Include:

†	Federal Government
★	Project of $500,000 or over
ENR	Engineering News-Record
CD	Engineering News-Record Construction Daily
A-E-M	Architect—Engineer-Management type of contract.

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger: water supply, earthwork, waterworks, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

Classes of Construction

(Named in order of Listing)

Water Supply	Unclassified
Sewers, Waste Disposal	Latin America
Bridges	Public Buildings
Streets & Roads	Commercial Buildings
Earthwork, Waterways	Industrial Buildings

Stages Reported

PROPOSED: (except Streets & Roads):

BIDS ASKED (new announcements only. For full calendar, see also preceding issues of ENR);

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

Note: To comply with censorship requirements, addresses on some reports are being generalized. Data which would reveal the purpose of the improvements and the size are withheld. The name of contractor and general area are reported.

N. B., Fredericton — Municipality, 100,000 gal. reservoir and laying 1/2 mi. 6 in. watermain, day labor. **$25,000.** J. D. Mackay, City Hall, engr. CD 10/30—ENR 11/12.

N. B., Moncton—Dpt. Natl. Defense (Air), Ottawa, Ont., waterworks, to Dexter Constr. Co. Ltd., Station St., Fairville (St. John), **$37,000.**

SEWERS, WASTE DISPOSAL

PROPOSED WORK

Conn., New Britain—P. Wks. Dpt., City Hall, sewers, McClintock St. from Eddy Blvd. to right-of-way; in right-of-way, from McClintock St. to Farmington Ave.; Farmington Ave. from right-of-way to Corbin Ave.; Pentlow Ave. from Farmington to Corbin Aves., $75,000. G. Molleur, City Hall, engr.

N. C., Carolina Beach—A. P. Pray, mayor, completion, exten. into new areas of sewerage sys. $50,000. Applied to FWA.

O., Cleveland—E. J. Brown, dir. Pub. Utilities, sewage pump. station, Cuyahoga River and Merwin Ave. $40,000. J. C. Wenrich, city engr.

Tex., Houston—J. Edy, city mgr., sanitary sewers in West Heights and Independent Heights, Herman Park relief lines known as Kenmore Sys., $116,750; enlarging Park Place treatment plant and sanitary sewer for Lum Terrace—Goldcrest—Oak Acres sys., $40,000; storm sewers for Norhill, Polk, Sampson, Michaux, San Jacinto, Morningside and Broadmoor Sts., $81,700. CD 5/20—ENR 5/27.

Va., Norfolk—City Mgr., City Hall, sewage pump. station and force main. $127,180. Applying for FWA funds. W. H. Taylor, c/o owner, engr.

Ont., Clinton—M. T. Corless, municipality clk., sewage disposal plant. $30,000.

Ont., London—Bids soon, interceptor sewer, $28,000. R. Garrett, City Hall, London, engr. CD 7/12—ENR 7/15.

Ont., St. Catherines—K. V. King, St. Catherine, clk., Grantham Twp., drain near here. $50,000.

Ont., Toronto—Chn. Bd. Control, Toronto, sewage disposal plant, on Toronto Island. $30,000-$40,000. R. C. Harris, City Hall, engr.

Ont., Trenton—Dom. Government, Ottawa, incinerator. $35,000. Engineer, c/o Dpt. M. & S., Wellington St., Ottawa, engr.

Que., St. Colomb de Sillery (Postal Dist., Quebec City)—C. Langlois, municipality clk., sewer extens. $36,000.

Que., Sherbrooke—Sewers, water and gas main extens., etc. $175,000. Crepeau & Cote, 45 Wellington St. N., engrs.

BIDS ASKED

Bids Asked July 28

La., Baton Rouge—F. S. LeBlanc, mayor, Sect. A, 1,368 lin. ft. 8 in. sanitary sewers in Government and Vivian Sts., in alley and on easement; Sect. B, 945 lin. ft. 8 in. sewers, Allen St. L. J. Voorhies, 3000 A. Dalrymple Dr., engrs.

Md., Baltimore—Bd. Awards, City Hall, 1,025 lin. ft. 8 in. vitr. sewers, etc., Contr. 360. Plans deposit $5, not refunded.

Bids Asked July 30

†Okla., Norman—At office City Clerk, sewer imprvs., Okla. 34-178, $75,000. **FWA.** R. M. McCool, city mgr. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs. CD 3/23—ENR 3/25.

Bids Asked August 2

Md., Towson—Comrs. Baltimore Co., 8,070 lin. ft. 8 and 10 in. vitr. sewers in Yorkleigh and Yorktown, Contr. 75 S. Plans deposit $5, not refunded.

Bids Asked August 3

Ia., Ankeny—H. M. Fredericks, city clk., sewer and water sys. imprvs., incl. imprv. sewage disposal plant, sewer lines, well, pump house, electric power lines. $22,000. Nemmers & Clark, Hubbell Bldg., Des Moines, engrs.

Bids Asked August 4

Calif., San Francisco—City, Dpt. P. Wks., City Hall, concrete sewer in 15 and Church Sts. $110,000. Plans deposit $10. John J. Casey, city engr.

Bids Asked September 9

N. J., East Orange—City of East Orange, Twp. of Hillside, town of Irvington, Twps. of Maplewood and Millburn, city of Newark, Boro of Roselle Park, village of South Orange, city of Summit, Twp. of Union, town of West Orange organized in Joint Meeting, at Council Chamber, City Hall, East Orange, Contr. 1, Div. B, sewer tunnel. E. T. Killam, 142 Maiden Lane, New York, N. Y., consult. engr. Plans deposit $30; adv. ENR 7/22.

LOW BIDDERS

California—Los Angeles Co., Hall of Records, Los Angeles, Zone 12, July 13, vitr. clay sanitary sewers in Washington Ave. and other Sts., CI 1078, Los Angeles Co., from Burch & Bebek Constr. Co., 8003 S. Broadway, Los Angeles, **$47,254.** Bids 7/13. CD 5/18—ENR 5/20.

Wis., Kaukauna—City, July 6, sanitary and storm sewers in Armstrong Ct., Reaume Ave., Ducharne, Roosevelt and Wilson Sts., from Chas. A. Green & Son, Inc., 123 S. Appleton St., Appleton, **$39,117.** F. M. Charlesworth, city engr.

CONTRACTS AWARDED

†Georgia—U. S. Eng., Post Office Bldg., Savannah, sewage disposal plant, Contr. 819-

SEWERS, etc. (Contracts Awarded, Cont'd.)

Eng-1604, to Southeastern Engr. Corp., Trust Co. of Georgia Bldg., Atlanta, **$100,000-$500,000**; sewerage sys., Contr. 819-Eng-1605, to W. C. Shepherd Co., 2450 Briarcliff Rd. N.E., Atlanta, **$50,000-$100,000**, both Houston Co.

†Indiana—U. S. Eng., 612 Federal Bldg., Louisville, Ky., incinerator, Contr. 559-Eng-7024, Jackson Co., to Wm. E. Mohler, t/a Wm. E. Mohler Co., 1033 Arch. & Bldrs. Bldg., Indianapolis, under **$50,000.**

†La., New Orleans—Sewerage & Water Bd., 526 Carondelet St., furnishing, laying approx. 9,550 lin. ft. 8 in. and 350 lin. ft. 10 in. concrete sewers, Contr. 139-S, to Kelly-Generes Const. Co., 134 Carondelet St., **$26,346. FWA.**

†Maine—U. S. Eng., 31 St. James Ave., Boston, Mass., enlarging sewage treatment plant, Contr. 175-eng-2614, Aroostook Co., to Lane Constr. Corp., 35 Colony St., Meriden, Conn., under **$50,000.**

†New Jersey—U. S. Eng., 6 and Walnut Sts., Phila., Pa., addnl. sewage disposal sys. and repairing existing sewerage plant bldg., Monmouth Co., to Jos. Nesto & Co., 872 Bway., Newark. Est. **$50,000.**

†N. Y., Colonie (br. Albany)—Town Bd., Colonie, at Town Hall, Newtonville, sewers and sewage pump. plant, Proj. N. Y. 30-244, to F & M Constr. Co., Watervliet, **$22,821. FWA.** Bids 7/9. CD 6/29—ENR 7/1.

†Rhode Island—U. S. Eng., 819 Industrial Trust Bldg., Providence, sewage disposal plant, No. 43-279, Kent Co., to Dingley Bros., Inc., Post Rd., Sudbury, Mass. Est. **$50,000-$100,000.** Bids 7/3.

†Va., Newport News—At office Federal Works Agency, 601 State Planters Bank Bldg., Richmond, Zone 19, 1,700 ft. 15 in. gravity outfall sewer, Docket Va. 44-264, to A. Stanley Mundy & Co. Inc., 52 Main St., Woodbridge, N. J., **$30,257.** Bids 7/14. CD 7/2—ENR 7/8.

Ont., Mountain View—Dpt. National Defense (Air), Ottawa, installing sewage disposal plant at bombing and gunnery school, to Gordon H. Fuller Const. Co. Ltd., 1580 Mercier St., Windsor, about **$30,000.** Bids 6/28. CD 6/23.

BRIDGES

PROPOSED WORK

Que., Sherbrooke—A. Deslauriers, municipality clk., bridge across St. Francis River, King St. Crepeau & Cote, 45 N. Wellington St., engr.

BIDS ASKED

Bids Asked July 30

Kentucky—Dpt. Hys., Frankfort, cleaning, painting steel bridge over Middle Fork Kentucky River, SP 13-67-4, Breathitt Co.; cleaning, painting floor sys. of Big Sandy River Bridge, Catlettsburg, Project MP 10-4-45 TB-1, Boyd Co.; repairing three 40 ft. span rein.-con. overhead bridge at Madisonville Hopkinsville Rd., Barnsley, MP 54-180-OH-1, Hopkins Co.; cleaning, painting steel bridge over Red River, Mariba-Nada Rd., SP 99-40-2, Powell Co.; 660 ft. overflow bridge, on approach to Ohio River Bridge, Paducah-Brookport Rd., Paducah, FA 58C(2) SP 73-12, McCracken Co. **(Correction**—bid date.) CD 7/13.

LOW BIDDERS

California—State Hy., Dpt., State Bldg., Los Angeles, Zone 12, July 8, bridge (portion) and approaches over Los Angeles River in Figueroa St., Los Angeles Co., from A. S. Vinnell Co. & Engineers, Ltd., 1146 Westminster Ave., Alhambra, **$120,568.** CD 6/21—ENR 6/24.

California—State Div. Hys., Sacramento, July 14, 2 rein.-con. bridges across Pine Creek overflow about 7 mi. west of Chico, Butte Co., from M. A. Jenkins, 3560 Broadway, Sacramento, **$33,926.** CD 6/28—ENR 7/1.

Mass., Waltham—City, Purchasing Agent, P. Wks. Dpt., City Hall, July 16, stone-faced bridge over Charles River, Moody St., from E. J. Rappoli Co., Inc., 515 Massachusetts Ave., Cambridge, **$152,850.** CD 7/2—ENR 7/8.

CONTRACTS AWARDED

Missouri—State Hy. Comn., Jefferson City, three 60 ft. steel plate girder I-beam spans, Jackson Co., to Massman Constr. Co., New York Life Bldg., Kannsas City, Mo. Est. over **$25,000.** Awarded 7/10. CD 6/30—ENR 7/8.

Que., Buckingham—Dpt. P. Wks., Quebec City, steel superstructure, guard rails and lighting standards for new bridge over Lieore River, to Dominion Bridge Co. Ltd., Lachine, Que., **$35,000**; substructure, approaches, to Laflamme & Laflamme Ltd., 8500 St. Hubert St., Montreal, **$28,000.**

STREETS AND ROADS

BIDS ASKED

Bids Asked July 26

N. Y., Kew Gardens—President Queens Boro, Queens Boro Hall, 120-55 Queens Blvd., Kew Gardens, laying sidewalk, relaying sidewalk, where necessary, etc., Jamaica Ave.; curbing, recurbing, laying sidewalk, relaying sidewalks, etc., Hillside Ave.

Ont., Port Arthur—City, 7 in. slab, 27 ft. wide on Crown, Bay, Banning, High and Grenville Sts., **$57,000.** S. E. Flook, Port Arthur, engr.

Bids Asked July 27

Iowa—State Hy. Comn., Ames, maintenance resurfacing 5.6 mi. Iowa 369 from Unionville to Iowa 2, 10 mi. Iowa 142 from Missouri to Iowa 2, 5.4 mi. Iowa 216 from Exline to Iowa 60, 4 mi. Iowa 277 from Numa to Iowa 60, M-5235, Appanoose Co.; 2.3 mi. Iowa 330 from Ionia to U.S. 18, Stockpile at Junction U.S. 18 and Iowa 330, M-2218, Chickasaw Co.; 15.9 mi. Iowa 24 from Calmer to Lawler, 4.3 mi. Iowa 325 from Spillville to Iowa 52, stockpiles on Iowa 24 and 325, M-2219, Chickasaw and Winneshiek Counties; 12.6 mi. Iowa 273 from Lake Wapello to U.S. 63, M-5236, Davis Co.; 2.1 mi. Iowa 16 from Burlington to Ordinance Plant, 6.9 mi. Iowa 99 from Kingston to Louisa Co., M-5237, Des Moines Co.; 11.2 mi. Iowa 21 from Poweshiek Co. to Iowa 92, M-5239, Keokuk Co.; 13.8 mi. Iowa 99 from Wapello to Des Moines Co., 6 mi. Iowa 78 from Morning Sun to Henry Co., M-5241, Louisa Co.; 9.8 mi. U.S. 65 from Wayne Co. to U.S. 34, 0.9 mi. Iowa 306 from Derby to U.S. 65, M-5242, Lucas Co.; 23.6 mi. Iowa 22 from Blue Grass to Iowa 38 and from Nichols to Lone Tree, 6.6 mi. Iowa 76 from Cone to Nichols M-5246, Muscatine Co.; rein.-con. box culvert with concrete flume on Iowa 100, approx. 5.5 mi. west of Carson between Sects. 2 and II, Silver Creek Twp., FN-773, Pottawattamie Co. F. R. White, ch. engr.

Maryland—State Road Comn., Baltimore, scarifying, draining, macadam surfacing 0.8 mi. Cresaptown-Keyser Rd., Alleghany Co.

N. B., Nelson—Chief Highway Engineer, Fredericton, graveling, turnpiking 6½ mi. Rogersville Rd.

Bids Asked July 28

Ill., Chicago—O. E. Hewitt, comr. P. Wks., 406 City Hall, concrete paving E. 76 St., S. Stony Island to South Jeffery Ave. Plans deposit $10.

Ia., Mt. Pleasant—Bd. Supervs. Henry Co., resurfacing secondary roads, incl. 24,000 cu. yd. Class A crushed stone. C. D. Smith, Mt. Pleasant, co. engr.

Kansas—State Hy. Dpt., Seneca, light type surfacing 7.783 mi. K-1143, Wabaunsee Co.; resurfacing material 8.032 mi. P. 1657-AB, Lyon Co.; 7.889 mi. P. 1660, Marshall Co.; 6 mi. P. 1662, Nemaha Co.; 8.039 mi. P. 1663, Pottawatomie Co.; single asphalt surface treatment 2.143 mi. P. 1653, and 18.461 mi. P. 1654-AB, Atchison Co.; 12.088 mi. P. 1671, Brown Co.; 4.349 mi. P. 1655-AB, 11.537 mi. P. 1656-AB, both Jackson Co.; 6.94 mi. P. 1643, 7.746 mi. P. 1644-AB, both Leavenworth Co.; 13.677 mi. P. 1658-ABC, and 0.691 mi. P. 1659-AB, Marshall Co.; 23.79 mi. P. 1661-AB, Nemaha Co.; 9.762 mi. K-1144, Osage Co.; 12.234 mi. P. 1664-AB, Riley Co. R. C. Keiling, **Topeka, engr.**

Md., Baltimore—Bd. Awards, City Hall, sheet asphalt paving, Contr. S.A. 777. Plans deposit $5, not refunded.

Pennsylvania—State Dpt. Hys., Harrisburg, concrete paving, bituminous surfacing, etc., 14,498 ft. Legislative Routes 762, Sect. 1 and 762 Parallel and 23086 Spur E. Tinicum Twp., 7,210 ft. Legislative Route 762, Sect. 2, Tinicum Twp., both Delaware Co.; 2,975 ft. Legislative R-5, Sect 6, Traffic R-309, Plains Twp., Luzerne Co. plain concrete base, bituminous surfacing 509 ft. Legislative Route 443, Sect. 9, Traffic Route 22, City of Allentown, Lehigh Co.

Bids Asked July 29

Wash., Seattle—City, City County Bldg., Zone 4, paving 30 Ave. W. and other streets $48,274; repairing 42 Ave. N.E., Madison to McGilvra St., $14,000. C. L. Wartelle, County City Bldg., engr.

Bids Asked July 30

Wisconsin—State Hy. Comn., Madison, grading, draining, gravel surfacing 0.949 mi. Elmwood-Spring Valley Rd., S.P. 6520, Pierce Co.

Bids Asked August 3

Florida—State Road Dpt., Tallahassee, paving 4.445 mi. road 581, Oper. No. 4542, Access Road Proj. DA-NR 17(1), Broward Co. Plans deposit $5. J. H. Dowling, engr.

Washington—State Hy. Dpt., Olympia, ballasting, surfacing 9.94 mi. secondary State Hy. 21-A, Fort Ward to Battle Point and north of Battle Point, Kitsap Co.; grading, draining, paving, surfacing 2.5 mi. Secondary Hy. 1-I, Mukilteo to junction with Primary Hy. 1, Snohomish Co. Plans deposit $2. B. Bantz, dir.

Bids Asked August 4

California—State Div. Hys., Sacramento, furnishing, placing imported base material and applying seal coat 3.2 mi. between Dimmick Memorial Park and Mendocini, Mendocino Co.; grading, concrete paving 8.9 mi. road between north city limits of Vallejo and Suscol Creek, Solano and Napa Counties; rein.-con. slab bridge across Ulatis Creek about 7 mi. south of Dixon, Solano Co. G. T. McCoy, state hy. engr.

Bids Asked August 6

Minneapolis—State Hy. Dpt., St. Paul, imprv. S.P. 1803-04 (TH 18-18) and S.P. 4814-16 (TH 169-18) 48,000 gal. RT. bituminous material, 2066 tons mineral aggregate, etc; over $25,000; Plans deposit 70c.; S.P. 7318-12, (TH 71-141) 31,900 gal. RT [illegible] rial, 1,398 tons mineral aggregate, [illegible] posit 55c.; S.P. 7312-04, [illegible] 7313-02 (TH 55-142) and S.P. [illegible] 142) 38,000 gal. RT bituminous material, 1,855 tons mineral aggregate, [illegible] 55c. O. L. Kipp, ch. engr.

Bids Asked

Iowa—State Hy. Comn., Ames, [illegible] bids July 13, imprv. 110.8 [illegible] roads Algonoosa, Chickasaw, Winneshiek, Davis, [illegible] Moines, Keokuk, Louisa, Lucas and Wetar Counties; channel change, etc., Lynn Co. Received no bids July 13, imprv. 30.1 mi. Muscatine Co. CD 7/7.

LOW BIDDERS

California—State Div. Hys., State Bldg., Los Angeles, July 8, completion partial completed contract asphaltic concrete surfacing approx. 2 mi. Los Angeles Co., from J. E. Haddock, Ltd., 2526 E. Foothill Blvd., Pasadena, **$130,781.** G. T. McCoy, state hy. engr.

California—State Hy. Dpt., Sacramento, July 14, imprv. 4.7 mi. Del Norte Co. from Marshall S. Hanrahan, Box 429, Redwood City, **$54,903*****13.6 mi. Santa Barbara Co. from Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, **$302,949*****7.2 mi. Napa and Sonoma Counties, from A. G. Raisch, 2048 Market St., San Francisco, **$93,688****** mi. Contra Costa Co., from Lee J. Immel, Box 65, Stn. A., Berkeley, **$44,815,** [illegible] CD 6/28—ENR 7/1****5 mi. Humboldt Co. from Mercer Fraser Co., 2 and Commerce Sts., Eureka, **$41,530.** CD 7/2—ENR [illegible] Received no bids July 14, imprv. 7.8 mi. Plumas Co.

Florida—State Rd. Dpt., Tallahassee, July 15, imprv. 8.398 mi. Lee and Charlotte Counties, from Cone Bros. Contg. Co., Caesar and Cumberland St., Tampa, **$26,831****** mi. Okaloosa Co., from Smith Eng. & Const. Co., W. Pensacola, **$167,097******15.73 mi. Madison and Taylor Counties, from Southeastern Constr. Co., Ozark, Ala., **$83,744******16 mi. Citrus Co., also 8.349 mi. Marion Co. from Brinson Constr. Co. and J. L. Cone & J. Manly, Tampa, **$124,167** and **$95,641** respectively. CD 7/7.

★**Indiana**—State Hy. Comn., S. G. Haddon, ch., Indianapolis, July 8, imprv. 7.2 mi. Contr. 2333, from Berns Constr. Co., 159 Market St., Indianapolis, **$275,979,** est. $[illegible] ***1.548 mi. Contr. 2348, from W. D. Young, 3760 E. St. Clair St., Indianapolis, $172,[illegible] est. $176,319, both in Vermillion Co.**** mi. Contr. 2409, Tippecanoe Co., from D. Vaughn, **Lafayette, $87,844,** est. $93,[illegible] 6/28—ENR 7/1.

Kentucky—State Dpt. Hys., Frankfort, July 16, imprv. 7.721 mi. Bullitt and Nelson Counties, from R. B. Tyler Co., 1446 Lever St., Louisville, **$116,146;** 1.398 mi. Green Co., from Nally & Mudd, Bardstown, $103,[illegible] Received no bids July 16, imprv. 0.728 mi. Webster Co.; 0.16 mi. Daviess Co. CD 6/[illegible]

★**Ohio**—State Hy. Dpt., Columbus, July 6, imprv. 1.95 mi. Guernsey Co., from Muskingum Valley Asphalt & Supply, Inc., 226 Masonic Temple, Zanesville, $92,427,[illegible] $92,500***3.068 mi. Lucas and Wood Counties from Launder & Sons, Inc., Station E. 8, 6, Toledo, **$193,396,** est. $193,800****6[illegible] Summit Co., from The Hollinger-Davis Co., 85 E. Thornton St., Akron, $125,934,[illegible] $132,000***2.365 mi. Clinton Co., from Cline Constr. Co., Wilmington, **$35,515,** est. $36,[illegible] ***7.381 mi. Columbiana Co., from The Kokosing & Meyer Co., 522 Dollar Bank Bldg., Youngstown, **$102,936,** est. $113,300***2.495 mi. Greene Co., from Boyd & Cook Co., 501 Elder & Electric Bldg., Dayton, **$40,149,** est. $41[illegible] ***2.387 mi. Portage Co., from The McGregor Constr. Co., 720 Home Ave., Akron, $47,[illegible] est. $47,870***3.64 mi. Richland Co. from Mansfield Asphalt Paving Co., 153 Orange St., Mansfield, **$69,142,** est. $69,150***1.614 mi. Washington Co., from W. J. Elliott, McConnellsville, **$60,350,** est. $60,540****34.67 mi. Allen, Hardin and Wyandot Counties, from U. S. Constr. Co., 115 E. Johnson St., Fostoria, Sandusky, **$58,422,** est. $61,412****56.65 mi. Belmont, Guernsey and Harrison Counties, from Tri-State Asphalt Corp., South Bend, Ind., Martins Ferry, **$54,256,** est. $54,262****15.1 mi. Dark Co., from Greenville Bituminous Products Co., Greenville, **$30,714,** est. $31,072****[illegible] mi. Hancock and Putnam Counties, from C. Edgington & Sons, 1220 S. Main St., Findlay, **$59,837,** est. $60,437****52.05 mi. Holmes, Tuscarawas Counties, from Edgar Sons, Inc., 3 St., Dover, **$50,839,** est. $50,[illegible] mi. Logan and Auglaize Counties, from B. Baumgardner & Sons, 221 N. Mill St., Celina, **$30,216,** est. $30,785. Received no bids for 13 imprv. 16.01 mi. Knox Co., 30.21 mi. Champaign and Miami Counties, 42.39 mi. Columbiana, Harrison and Jefferson Counties, 0.442 mi. Wayne Co. CD 7/9.

CONTRACTS AWARDED

†Alabama—U. S. Eng., Grant St. and Westwood St., Mobile, roads, Contr. 568-5231, Mobile Co., to Southeastern Constr. Co., Ozark, **$100,000-$500,000.**

†Arizona—U. S. Eng., 751 S. Figueroa St., Los Angeles, 14, Calif., graveling, Contr. Eng-5140, Yuma Co., to Tanner Constr. Co., P. O. Box 1832, Phoenix, **$100,000-$500,000.**

†Florida—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, bituminous surface treatment, etc., Contr. 436-Eng-10450 [illegible] Marion Contg. Co., Ocala, under $50,000.

STREETS, etc. (Contracts Awarded, Cont'd.)

Florida—State Road Dpt., Tallahassee. mprv. 7 mi. Santa Rosa Co., to Smith Eng. Constr. Co., West Pensacola, **$35,630.** Bids 15. CD 7/7.

†Florida—U. S. Eng., 575 Riverside Ave., acksonville, Zone 2, roads, Neg-Jag-43-1076, arasota Co., to Cone & Manly, Caesar St. d Cumberland Rd., Tampa, under **$50,000.** warded 6/26.

†Florida—U. S. Eng., 575 Riverside Ave., acksonville, Zone 2, stabilization shoulders d zones, Neg-Jax-43-1208, Sarasota Co., to one & Manly Constr. Co., Caesar St. and umberland Rd., Tampa, under **$50,000.** warded 7/9.

†Florida—U. S. Eng., 575 Riverside Ave., acksonville, Zone 2, surface treatment, eg-D.H.-44-1, Volusia Co., to Marion Contg. o., Ocala, under **$50,000.** Awarded 7/12.

†Georgia—U. S. Eng., Post Office Bldg., avannah, paving, grassing, Contr. 819-Eng-910, Colquitt Co., to Scott Contr. Co., homasville, **$50,000-$100,000.**

†Georgia—U. S. Eng., Post Office Bldg., avannah, paving, Contr. 819-Eng-1611, Chatham Co., to E. H. Hines & Super & Co., reenwood, S. C., under **$50,000.**

†Louisiana—U. S. Eng., 25 St. and Avenue Galveston, Tex., addnl. asphalt paving, ast Baton Rouge Parish, to R. M. Lilly, 1255 ileside Dr., Baton Rouge, under **$50,000.** CD 7—ENR 7/15.

Minnesota—State Hy. Dpt., St. Paul, mprv. S.P. 6805-02 (T.H. 32-32), to Zonni-Herbison, Inc., Ironton, **$51,093.** Bids 3. CD 6/24—ENR 7/1.

†New York—U. S. Eng., 120 Wall St., New York, Zone 5, paving, Contr. 1097-Eng-4161, range Co., to John Arborio, Inc., W. Cedar t, Poughkeepsie, **$500,000-$1,000,000.**

N. D., Fargo—Replacing paving where ree car tracks were removed, to J. A. aw Constr. Co., 633 First Ave. N., **$40,245.**

Ohio—State Hy. Dpt., Columbus, imprv. 4.7 mi. Warren Co., to L. P. Cavett Co., 511 Shepherd Ave., Lockland, **$41,976,** est. $42,243 ***10.88 mi. Union Co., to Charles J. Shelly, Thornville, **$26,417,** est. $26,733***24.12 mi. Portage and Summit Counties, to A. J. Krayak, W. Center St., Burton, **$44,610,** est. $44,647***42.1 mi. Allen Defiance, Paulding, Putnam and Van Wert Counties, to L. Cossett, 21 W. Front St., Findlay, **$63,435,** est. $67,423. Bids 7/6. Grand total $176,438. Received no bids July 6, imprv. 16.86 mi. Champaign, Clark and Miami Counties; 28.76 mi. Lahoning and Stark Counties. CD 7/2.

†Oregon—U. S. Eng., Pittock Blk., Portland, repair road relocation, Lane Co., to McDutt Bros., 351½ Bway., Eugene, **$50,000-$100,000.**

†Tennessee—U. S. Eng., Grant St., west of Westwood St., Mobile, Ala., paving roads and constructing parking areas, Contr. 569-eng-239, Shelby Co., to Lehman-Roberts Co., 75 N. Front St., Memphis, **$50,000-$100,000.**

†Texas—U. S. Eng., 25 St. and Avenue F, Galveston, surfacing motor pool areas, McLennan Co., to O'Neal Constr. Co., 901 S. Austin St., Dallas, under **$50,000.**

†Texas—U. S. Eng., Fort Sam Houston, asphalt paving, electrical distr. sys., underground utilities, etc., Bexar Co., to J. H. Mayhourn, 326 Funston Pl., San Antonio, under **$50,000.**

†Texas—U. S. Eng., Albuquerque, N. M., addnl. grading, El Paso Co., to Lee Moor Const. Co., Bassett Tower, El Paso, **$100,000-$500,000.**

†Texas—U. S. Eng., 25 St. and Avenue F, Galveston, asphalt paving, Sol. 359-43-C160, Dept. Galveston Co., to Southern States Constr. Co., 203 San Jacin to National Life Bldg., Houston, under **$50,000.**

Utah—State Rd. Comn., Salt Lake City, gravel surface stockpiles, Summit Co., to J. W. Clyde & Co., Springville, **$46,400;** imprv. 13.091 mi. Utah Co., to J. M. Sumsion, Springville, **$62,000.** Bids 7/8. CD 6/30.

†Washington—U. S. Eng., 800 3 Ave., Seattle, Zone 4, roads, walks and exterior utilities, Spokane Co., to R. L. Bair, 1220 Ide Ave., Spokane, under **$50,000.**

Washington—State Hy. Dpt., Olympia, imprv., incl. undercrossing and pedestrian undercrossing 1.57 mi. Clark Co., to Rumsey Co., 3821 Airport Way, Seattle, **$285,369;** imprv. 9.9 mi. Secondary Hy. 21-A, Poulsbo to Suquamish, Kitsap Co., to Paine & Galloway and Harrison Brothers, 1521 S. Grant St., Tacoma, **$45,860.** Bids 7/13. Rejected bids July 13. imprv. 9.9 mi. Secondary Hy. 21-A and county road, Fort Ward to Battle Point, Kitsap Co. CD 6/30.

Wash., Spokane—Spokane Co., Courthouse, surfacing 51.2 mi. road, to Standard Asphalt Paving Co., Chronicle Bldg., **$79,962.** C. F. Riggs, Courthouse, engr.

West Virginia—State Road Comn., Charleston, imprv. P. 3422, etc., Ivydale, Clay Co., to Keeley Constr. Co., Clarksburg, **$30,268***** 2215-A, Scheer, Grant Co., also P. 3012, Romney, Hampshire Co., to Potomac Constr. Co., Martinsburg, **$25,636** and **$67,906** respectively***P. 2922, Beckley, Raleigh Co., to A. A. Bostic & Son, Rupert, **$27,595.** Grand total $181,402. Bids 7/13. Rejected bids July 13, imprv. roads in Mercer, Raleigh and Randolph Counties. CD 7/1—ENR 7/8.

B. C., Victoria—Province of B. C., Victoria, reconstructing roads 2 mi. Delta Dist.; 3 mi. Grand Forks Dist.; 7 mi. Similkameen Dist.; 3 mi. Langford Lake Dist., day labor, **$166.000** voted. Dpt. P. Wks., Victoria, engr

N. S., Debert (Truro)—Dpt. Natl. Defense (Army), Ottawa, Ont., surfacing parade grounds at Military Camp, to Rayner Constr. Ltd., 29 Commercial St., Leaside (Toronto) Ont., **$64,000.**

Ont., Etobicoke (Toronto)—Etobicoke Twp., Township Hall, Islington, 50,000 sq. yd. surface treatment, to A. E. Jupp Const. Co. Ltd., rear of 56 Boultbee St., Toronto, about **$60,000.** F. McArthur, Township Hall, Islington, engr.

Ont., Oshawa—F. E. Hare, municipality clk., street paving, to A Cope Ltd., 19 Albert St., Hamilton, Est. **$25,000.** O. G. Miller, City Hall, engr.

EARTHWORK, WATERWAYS

PROPOSED WORK

Ind., Indianapolis—A. Henry, ch. city engr., flood levee along Eagle Creek. $50,000.

Pa., Donora—American Steel & Wire Co., Frick Bldg., Pittsburgh, harbor imprvs., Monongahela River at plant Donora Steel & Wire Wks., incl. 1 mi. encroachment riverward, relocation harbor lines, etc. Over $15,000.

Que., Rouyn—R. Gagne, mayor, drainage Lake Edward as a health project, $30,000. Dpt. Lands & Forests, Quebec City, engr.

BIDS ASKED

Bids Asked July 27

†Arkansas—U. S. Eng., West Memphis, approx. 770,000 cu. yd. earthwork, in the Lower St. Francis Levee Dist., No. 1092-44-2, Lee Co.

Bids Asked July 28

Connecticut—State, Fred R. Zeller, comptroller, Hartford, raising, imprv. Upper and Lower dams, north of State Hy., leading from Bolton Notch to Quarryville. Chandler & Palmer, Thayer Bldg., Norwich, engrs.

Bids Asked July 29

†Arkansas—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, Miss., approx. 1,472,000 cu. yd. earthwork, on the west bank of the Mississippi River.

Bids Asked August 16

★**†Mississippi**—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, 2,010,000 cu. yd. channel excav., Cassiday Bayou, No. 1106-44-4, Quitman and Coahoma Counties, $900,000.

LOW BIDDERS

†Missouri—U. S. Eng., 816 U. S. Courthouse & Customhouse, St. Louis, Mo., July 14, 160,000 cu. yd. levee repair work, Perry Co., from O'Dell & Riney Constr. Co., Dougherty Ferry Rd. and Essex St., Kirkwood, **$50,000-$100,000.**

CONTRACTS AWARDED

†California—U. S. Eng., 751 S. Figueroa St., Los Angeles, Zone 14, flood protection for Well 3, No. 297C, San Bernardino Co., to F. Ziebarth, 820 W. Esther St., Long Beach, under **$50,000.** Awarded 7/9.

†Florida—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, excavation, drainage facilities, etc., Contr. 436-Eng-10429, Highlands Co., to B. B. McCormick & Sons, Inc., Graham Bldg., Jacksonville, **$100,000-$500,000.**

†Illinois—U. S. Eng., 520 Merchandise Mart, Chicago, construction, enlarging levee, appurtenant work, Contr. 1088-Eng-3109, Tazewell Co., to Swords-McDougal Co., 217 N. Adams St., Peoria, under **$50,000.**

†Texas—U. S. Eng., Fort Sam Houston, earth dykes, Coryell Co., to Dean Ward, 446 E. Rosewood St., San Antonio, under **$50,000.**

UNCLASSIFIED

PROPOSED WORK

†Ariz., Nogales — IMPROVEMENTS — Civil Aeronautics Admin., 1500 Fourth St., Santa Monica, bids soon, imprvs. Over $25,000.

★**†Ariz., Willcox**—IMPROVEMENTS—Civil Aeronautics Admin., 1500 Fourth St., Santa Monica, Calif., imprvs. $700,000.

†Arkansas—IMPROVEMENTS—U. S. Eng., 300 Broadway, Little Rock, imprvs., bldgs., Arkansas Co. Ginnochio & Cromwell, Hall Bldg., Little Rock, archts.

†Arkansas—IMPROVEMENTS—U. S. Eng., 300 Broadway, Little Rock, imprvs., bldgs., Jackson Co. Ginnochio & Cromwell, Hall Bldg., Little Rock, archts.

Louisiana—PILE CLUSTERS—Bd. Comm., Port of New Orleans, New Orleans, 2 clusters 6 piles each, etc., at upstream side of Algiers Iron Wks. & Dry Dock Co., Inc. wharf, Mississippi River, Orleans Parish.

La., Lake Charles—OIL WELL—Shell Oil Co., Deer Park, Houston, Tex., drilling, developing new deep test oil well. $25,000.

Mo., Springfield—MEMORIAL FOUNTAIN—City clerk, circulating petitions for calling election on $50,000 bond issue for memorial fountain, Public Square, $60,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs., bldgs., Thayer Co. $1,000,000.

†Nev., Fallon — IMPROVEMENTS — Civil Aeronautics Admin., 1500 4 St., Santa Monica, Calif., bids soon, addnl. imprvs. over $25,000.

†New Mexico — IMPROVEMENTS — U. S. Eng., Albuquerque, imprvs., Bernalillo Co. Over $25,000.

Pa., Slippery Rock—AIRPORT—Wilson Aviation Service, F. Wilson, pres. and mgr., commercial airport, incl. runways, hangars, etc. Over $25,000.

†Texas—IMPROVEMENTS—U. S. Eng., 25 St. and Avenue F, Galveston, imprvs., bldgs., Cameron Co.

Texas — PIPELINE CARRIER — Magnolia Pipe Line Co., Esperson Bldg., Houston, 194 mi. 12 in. pipeline main carrier between Midland and Cascicana.

Tex., Archer City—OIL WELL—E. C. Norwood Estate, et al., drilling, developing 5,800 ft. oil well test near here.

Tex., Bruni—OIL WELL—Shields & Zachry, Laredo, drilling 3,700 ft. oil well.

Tex., Chalk Hill (mail Elderville)—OIL WELL—A. R. Dillard No. 1, L. F. Wilson, Archer City, drilling, developing new 5,000 ft. oil well test.

Tex., Coleman—OIL WELL—Jas. C. Ellis & Associates, Owensboro, drilling, developing 3,200 ft. oil well test.

Tex., Corpus Christi—RADIO STATION—Baylor University, Waco, and Carr P. Collins, c/o Wholesale Merchandise Bldg., Dallas, 50,000 watt radio station.

Tex., Gause—OIL WELL—Standard Oil Co. of Texas, Petroleum Bldg., Houston, drilling, developing 6,500 ft. oil well test.

Tex., Graham — OIL WELL — Auto Ordnance Corp., Graham, drilling, developing 6,000 ft. oil well.

Tex., Harrold—OIL WELL—Waggoner Interests, Waggoner Bldg., Fort Worth, drilling, developing 4,500 ft. oil well test.

Tex., Hochheim—OIL WELL—Tidewater Associated Oil Co., M. Esperson Bldg., Houston, drilling, developing new 8,500 ft. oil well.

Tex., Kenedy—OIL WELL—Phillips Petroleum Co. and Arkansas Fuel Oil Co., M. Esperson Bldg., Houston, developing new deep test oil well. $25,000.

Tex., Levelland—OIL WELL—Glove Oil & Refining Co., Lubbock, drilling, developing 6,200 ft. oil well test.

Tex., Markham—OIL WELL—Ohio Oil Co., Oil & Gas Bldg., Houston, drilling, developing 8,500 ft. oil well.

Tex., Monahans—OIL WELL—Gulf Oil Co., Gulf Bldg., Houston, drilling, developing new 9,000 ft. oil well.

Tex., Montague—OIL WELL—Continental Oil Co., Eagle Ford Rd., Dallas, drilling, developing new 7,300 ft. oil well.

Tex., New Castle—OIL WELL—Kerlyn Oil Co., New Castle, drilling, developing new 5,300 ft. oil well test.

Tex., Raymondville—OIL WELL—C. I. Oleson & W. Lincoln, Raymondville, drilling, developing new 8,500 ft. oil well test.

Tex., Riverside—OIL WELL—Dan Auld & Associates, Corpus Christi, drilling, developing 7,000 ft. oil well, $25,000.

Tex., Texana — OIL WELL — Hewitt & Dougherty, Edna, drilling, developing new deep test oil well.

Tex., Victoria—OIL WELL—Stanolind Oil Co., Fair Bldg., Fort Worth, drilling, developing new 6,750 ft. oil well.

Tex., Wichita Falls—OIL WELL—Chapman & McFarlin, Wichita Falls, drilling, developing new 5,400 ft. oil well.

Tex., Wichita Falls—OIL WELL—Consolidated Oil Co., drilling, developing new 5,500 ft. oil well test. $25,000.

Tex., Wink—Superior Oil Co., Fair Bldg., Forth Worth, drilling, developing 4 new deep test oil wells. Over $25,000.

Tex., Windthorst—OIL WELL—L. T. Burns No. 1, J. B. French, Archer City, drilling, developing new 6,000 ft. oil well test.

Tex., Zapata—OIL WELL—Geo. H. Echols, Commerce Bldg., Houston, drilling, casing, developing 7,000 ft. oil well test.

†Washington—FIRE PROTECTION—U. S. Eng., 800 3 Ave., Seattle, Zone 4, addnl. fire protection facilities, Neg. 644, King Co.

†Washington—HEATING SYSTEM—U. S. Eng., 800 3 Ave., Seattle, Zone 4, heating sys. for watch tower, Negotiation, 649.

BIDS ASKED

Bids Asked Between July 21 and 28

★**†Ia., Mason City** — IMPROVEMENTS — Civil Aeronautics Admin., c/o W. E. Kline, reg. dir. and R. C. Herner, constr. engr., City Hall, Kansas City, Mo., imprvs. $650,000. CD 6/8—ENR 6/10.

UNCLASSIFIED (Bids Asked, Cont'd.)

Bids Asked July 26

★**British Columbia** — IMPROVEMENTS — Secy. Dpt. Munitions & Supply, Ottawa, Ont., imprvs., bldgs., at R.C.A.F. Station, for Dpt. Natl. Defense (Air), Ottawa, Ont. $600,000-$700,000.

Bids Asked July 27

Maryland — LANDSCAPING — State Roads Comn. Baltimore, landscape work, seeding, mulching 7.492 mi. hy. along Hughesville-Mechanicsville Rd., Contr. CH 251-2, SM 251-2, SM 252-2-566, Charles and St. Mary's Counties. Plans deposit $5.

Bids Asked July 28

†**Ohio** — ENGINE PROPELLER TEST HOUSE—National Advisory Committee for Aeronautics, Cleveland Airport, Cleveland, 2 story, 119x130 ft. engine propeller test house, $200,000. CD 6/16—ENR 6/24.

Bids Asked August 2

†**Tennessee**—IMPROVEMENTS—U. S. Eng., 512 Spring St. N.W., Atlanta, Ga., imprvs., Coffee Co.

Bids Asked August 16

†**California**—TRANSMISSION LINE—Bureau of Reclamation, Denver, Colo., 230 kw. transmission line from Shasta Power Plant to Oroville substation, Kennett Div., Central Valley project, Spec. 1056.

Bids Asked

†**Oklahoma**—IMPROVEMENTS—U. S. Eng., 416 Wright Bldg., Tulsa, imprvs., bldgs., grading, Sol. 957-Neg-44-15, Woodward Co.

†**Texas**—IMPROVEMENTS—U. S. Eng., Fort Sam Houston, imprvs., addnl. facilities, Bell Co.

LOW BIDDERS

†**California**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Zone 14, July 9, imprvs., drainage system, No. 1383, San Bernardino Co., from Eggleston & Root, P. O. Box 781, San Bernardino, under **$100,000.**

†**Maryland**—DRYDOCK—Maryland Drydock Co., Fairfield, Baltimore, drydock, etc., from Balto. Contractors, 23 N. Central Ave., Baltimore. Est. **$100,000.** Federally financed.

†**Vt., Burlington**—IMPROVEMENTS—Civil Aeronautics Admin., La Guardia Field, Jackson Heights, N. Y., imprvs., Proposal 13-546, from Bayer & Mingolla, Box 295, New Bedford, Mass., Bids 2 **$62,000,** Bid 3 $76,533. CD 7/1—ENR 7/8.

CONTRACTS AWARDED

†**Alabama**—FIRE ALARM EQUIPMENT—U. S. Eng., 512 Spring St. N.W., Atlanta, Ga., fire alarm equipment installation, Contr. 2034-Eng-1618, Etowah Co., to The American District Telegraph Co., Protective Life Bldg., Birmingham, under **$50,000.**

†**Alabama**—HANGAR—U. S. Eng., Grant St. west of Westwood St., Mobile, hangar, Contr. 569-Eng-5239, Mobile Co., to Foster & Creighton Co., American National Bank Bldg., Nashville, Tenn., **$100,000-$500,000.**

†**Arizona** — ELECTRICAL SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, 14, Calif., electrical sys. for imprvs., No. 1366, Pima Co., to Stetson Electric Co., 1026 N. McCadden Pl., Los Angeles, Calif., under **$50,000.** Awarded 7/8.

†**California** — ELECTRIC DISTRIBUTION SYSTEM—U. S. Eng., Wright Bldg., Sacramento, Zone 8, electric distr. sys., Spec. 631, Sacramento Co., to Clifford Electrical Co., 830 E. 14 St., Oakland, under **$50,000.**

†**California**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Zone 14, imprvs. bldgs., No. 1375 Santa Barbara Co., to P. B. Treat, 6314½, San Vicente Blvd., Los Angeles, over **$100,000.** Awarded 7/8.

★†**California** — RUNWAYS, etc. — Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., concrete runways, taxiways, parking area, NOY 6728, Otay Mesa, to Morrison Knudsen Co., Inc., 411 W. 5 St., Los Angeles, **$1,141,178.**

★†**California** — RUNWAYS, etc. — Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., concrete runways, taxiways, parking area, NOY 6726, Auxiliary Air Sta., Camp Kearney, to Haddock Engineers, Ltd., Box 569, Oceanside, **$2,267,929.**

†**California** — RAILROAD UNLOADING PLATFORM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Zone 14, railroad unloading platform, San Bernardino Co., to Robert E. McKee, 4700 San Fernando Rd. W., Los Angeles, under **$50,000.**

†**Colorado**—IMPROVEMENTS—U. S. Eng., 909—17 St., Denver, imprvs., Otero Co., to Peter Kiewit Sons Co., Omaha National Bank Bldg., Omaha, Neb. Est. under **$50,000.**

†**Delaware**—HANGAR—U. S. Eng., 6 and Walnut Sts., Phila., Pa., hangar alterations, addns., Contr. 697-Eng-4816, Kent Co., to Rupert Constr. Co., Wilmington, **$50,000-$100,000.**

†**Florida** — AIR-CONDITIONING — U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, air-conditioning, Neg-Jax-44-7, Orange Co., to James I. Barnes Constr. Co., 131 N. Ludlow St., Dayton, O., under **$50,000.** Awarded 7/10.

†**Florida**—CLEARING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, clearing, grubbing, drainage facilities, etc., Contr. 436-Eng-10403, Hillsborough Co., to J. H. Craggs Constr. Co., Ocala, under **$50,000.**

†**Florida**—CLEARING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, clearing, grubbing, excavation, drainage facilities, etc., Contr. 436-Eng-10357, Taylor Co., to Chas. K. McCaskill, Jr., Perry, under **$50,000.**

†**Florida**—CLEARING, GRUBBING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, clearing, grubbing, excav., stabilization limerock base course, bituminous seal coat, drainage facilities, etc., Contr. 436-Eng-10319, Bradford Co., to B. B. McCormick & Sons, Inc., Graham Bldg., Jacksonville, under **$50,000.**

†**Florida** — CLEARING and GRUBBING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, clearing, grubbing, etc., Contr. 436-Eng-10372, Hernando Co., to W. H. Armston Co., Inc., 357 Scotland Rd., Dunnedin, under **$50,000.**

†**Florida**—CLEARING, GRUBBING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, clearing, grubbing, sprigging seeding and grassing, etc., Hillsborough Co., to John W. Lyon & Co., 110 W. Gaddens Ave., Tampa, under **$50,000.** Awarded 7/15.

†**Florida**—CLEARING, GRUBBING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, clearing, grubbing, excavation, stabilization, limerock base course, paving, etc., Contr. 436-Eng-10339, Levy Co., to Rose & Horne, Ocala, under **$50,000.**

†**Florida**—CLEARING, GRUBBING, etc.—U. S. Eng. 575 Riverside Ave., Jacksonville, Zone 2, clearing, drainage facilities, grassing, etc., Orange Co., to Langston Constr. Co., 115 W. Grant Ave., Orlando, under **$50,000.** Awarded 7/15.

†**Florida** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, electrical distr. sys., Lee Co., to Bigby Electric Co., 305 Franklin St., Tampa, under **$50,000.** Awarded 6/29.

†**Florida**—FACILITIES—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, blackout facilities, Neg-K.W.F. 43-4, Monroe Co., to Smith-Peaker Constr. Co., Miami, under **$50,000.** Awarded 6/30.

†**Florida**—FACILITIES—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, blackout facilities, Neg-Jax-43-1140, Monroe Co., to Smith-Peaker Constr. Co., Miami, under **$50,000.** Awarded 6/30.

†**Florida**—FENCES—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, fences, Orange Co., to Langston Constr. Co., 115 W. Grant Ave., Orlando, under **$50,000.** Awarded 7/8.

†**Florida**—FENCE and GATES—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, fence and gates, Contr. 436-Eng-10316, Hernando Co., to I. A. Krusen, Zephyrhills, under **$50,000.**

†**Florida**—FLIGHT HAZARDS REMOVAL—U. S. Eng., Grant St. west of Westwood St., Mobile, Ala., flight hazards removal, Contr. 569-Eng-5239, Leon Co., to C. C. Foster, Contractor, Donalsonville, Ga., **$100,000-$500,000.**

†**Florida** — GRASSING — U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, addnl. grassing, Bay Co., to Robert Yancey, East 22 St., Jacksonville, under **$50,000.** Awarded 6/25.

†**Florida**—GRASSING—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, grassing, Neg-Jax-43-1191, Dade Co., to Calmay Nursery, 3401 N.W. 36 St., Miami, under **$50,000.** Awarded 6/30.

†**Florida**—GRASSING—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, grassing, Highlands Co., to Florida Nursery & Landscape Co., Leesburg, under **$50,000.** Awarded 6/28.

†**Florida**—GRASSING—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, grassing, Neg-Jax-43-1110, Pinellas Co., to Florida Nursery & Landscape Co., Leesburg, under **$50,000.** Awarded 6/27.

†**Florida**—HARDSTANDS, NETTING—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, hardstands, erecting netting over tents, Orange Co., to J. L. Ewell, Lakeland, under **$50,000.** Awarded 7/15.

†**Florida** — IMPROVEMENTS — U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, imprvs., Neg-Jax-43-1210, Alachua Co., to Fred Howland, Inc., 1114 Postal Bldg., Miami, under **$50,000.** Awarded 7/10.

†**Florida** — IMPROVEMENTS — U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, imprvs., Neg-Jax-43-1209, Clay Co., to Fred Howland, Inc., 1114 Postal Bldg., Miami, under **$50,000.** Awarded 7/10.

†**Florida**—IMPROVEMENTS—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, imprvs., resurfacing, etc., Neg-Jax-43-1193, Lee Co., to Marion Contracting Co., Ocala, under **$50,000.** Awarded 6/30.

†**Florida** — IMPROVEMENTS — U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, imprvs., Neg-Jax-44-13, Pasco Co., to M. R. Vaughn, 6918 Orange Blossom Ave., Tampa, under **$50,000.** Awarded 7/10.

†**Florida**—RAILROAD SPUR TRACK—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, railroad spur track, Neg-Jax-43-44-14, Sarasota Co., to A. B. Wikstrom, Orlando, under **$50,000.** Awarded 7/10.

†**Florida**—RANGE—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, range, Neg-Jax-43-1200, Dixie Co., to Sullivan Construction Co., Sarasota, under **$50,000.** Awarded 7/8.

†**Florida**—RANGE—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, range, Neg-Jax-44-5, Orange Co., to W. H. Armston Co., Inc., 357 Scotland Ave., Dunedin, under **$50,000.** Awarded 7/12.

†**Florida**—RANGE—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, range, Neg-Jax-43-1198, Taylor Co., to Sullivan Construction Co., Sarasota, under **$50,000.** Awarded 7/8.

†**Florida**—SPRIGGING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, sprigging, seeding, mucking, watering, Contr. 436-eng-10326, Polk Co., to Bovinton Landscape Co., 400 S. County Rd., West Palm Beach, under **$50,000-$100,000.**

†**Florida**—SPRIGGING, SEEDING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, sprigging, mucking, seeding and watering, Lee Co., to Mike L. Blank Nursery, Delray Beach, **$50,000-$100,000.** Awarded 7/8.

†**Florida** — SPRIGGING, SEEDING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, sprigging, seeding, watering, mucking, Palm Beach Co., to Holding Farms of Dania, **$50,000-$100,000.** Awarded 7/8.

†**Florida** — SPRIGGING, SEEDING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, sprigging, seeding, mucking and watering, Pinellas Co., to Island Landscaping Co., 309 S. Country Rd., Palm Beach, under **$50,000.** Awarded 7/8.

†**Florida** — SPRIGGING, SEEDING, etc.—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, sprigging, seeding, mucking and watering, Volusia Co., to Rob T. Yancey, East 22 St., Jacksonville, under **$50,000.** Awarded 7/8.

†**Florida** — STABILIZATION — U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, stabilization, Neg-Jax-43-1143, Volusia Co., to Simpson Constr. Co., Daytona, under $50,000. Awarded 6/19.

†**Florida** — TONEDOWN ORDINANCE AREA—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, tonedown ordinance area, Orange Co., to Langston Constr. Co., 115 W. Grant Ave., Orlando, under **$50,000.** Awarded 6/26.

†**Florida**—TOWERS—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, towers, Neg-K.W.F.-43-5, Monroe Co., to Wood-Hopkins Contg. Co., 478 Jessie St., Jacksonville, under **$50,000.** Awarded 6/30.

†**Florida**—TURRET RANGE GROUND—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, turret range ground, Hernando Co., to Clyde J. Keys, Inc., Federal Bldg., Petersburg, under **$50,000.** Awarded 7/12.

†**Kentucky** — LIGHTING SYSTEM — U. S. Eng., 612 Federal Bldg., Louisville, expansion and reconstruction lighting sys., Contr. eng-7019, Jefferson Co., to Link Electric Co., 640 S. 1 St., Louisville, under **$50,000.**

†**Louisiana** — ELECTRICAL INSTALLATIONS—U. S. Eng., 25 St. and Avenue F, Galveston, Tex., electrical installations, Jefferson Parish, to American District Telegraph Co., 155 6 Ave., New York, N. Y., and International Bldg., Dallas, Tex., under **$50,000.**

†**Louisiana** — GROUNDS DEVELOPMENT—U. S. Eng., 25 St. and Avenue F, Galveston, Tex., grounds development, seeding, etc., Jefferson Parish, to T. Bryan & Assoc., LaFayette, under **$50,000.**

La., Madrid—RAILROAD TRACK—Chicago, Milwaukee, St. Paul & Pacific R. R. Co., E. Jackson Blvd., Chicago, Ill., 6 mi. railroad track on Des Moines-Madrid line, to J. L. McLaughlin & Sons, 4047 Urbandale St., Des Moines, Ia.

†**Maine**—SEEDING, etc.—U. S. Eng., 31 St. James Ave., Boston, Mass., seeding, surface grading, Aroostook Co., to Bridge Construction Corp., 335 Water St., Augusta. Est. $100,000-$500,000.

†**Maryland**—TRANSMISSION LINES—U. S. Eng., Aberdeen, transmission lines in connection with wind tunnel, power lines, etc., Harford Co., to Whitely Electric Co., 13 N. Carey St., Baltimore. Est. **$150,000-$250,000.** CD 7/8—ENR 7/8.

†**Michigan** — INSULATION AND STEAM HEATING SYSTEMS—U. S. Eng., 700 Union Guardian Bldg., Detroit, insulation and steam heating sys., Washtenaw Co., to Gilbert Douglas Co., 439 Penobscot Bldg., Detroit, under **$1,000,000.**

★†**Mich., Traverse City**—AVIATION FACILITIES—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash. D. C., addnl. aviation facilities, Naval Air Station, NOY 6454, to Christman Co., 408 Kalamazoo Plaza, Lansing, **$579,000.**

†**Nebraska**—COAL STORAGE—U. S. Eng., 1709 Jackson St., Omaha, expansion coal storage area, Contr. 643-eng-4304, Fillmore

CLASSIFIED (Contracts Awarded, Cont'd.)

...y and Thayer Counties, to Lowe Constr. ... 417 1 Ave. SE, Cedar Rapids, Ia., under ...,000.

Nebraska — GASOLINE STORAGE, etc. — ... S. Eng., 1709 Jackson St., Omaha, addnl. ...oline storage and dispensing facilities, ...tr. 643-eng-4223, Fillmore Co., to Aqua ...tems Inc., 385 Gerard Ave., New York, ...Y., under **$50,000.**

Nebraska—GASOLINE STORAGE SYSTEM ... S. Eng., 1709 Jackson St., Omaha, addns. ... modifications gasoline storage sys., Contr. ...-eng-4266, Hall Co., to Aqua Systems, Inc., ... Gerard Ave., New York, N. Y., under ...,000.

Nebraska—IMPROVEMENTS—U. S. Eng., ... Jackson St., Omaha, imprvs., bldgs., Clay ... to W. H. Peters, Hastings. Est. under ...,000.

Nebraska—IMPROVEMENTS—U. S. Eng., ... Jackson St., Omaha, imprvs., Redwillow ... to Roush Const. Co., Concordia, Kan. ... under **$50,000.**

Nebraska—IMPROVEMENTS—U. S. Eng., ... Jackson St., Omaha, imprvs., bldgs., Red... ...low Co., to Geer-Mauer Const. Co., Grand ...nd. Est. under **$50,000.**

Nebraska—RIFLE RANGE—U. S. Eng., ... Jackson St., Omaha, rifle range, Contr. ...-Eng-4276, Hall Co., to Roush Constr. Co. ...ncordia, Kans., under **$50,000.**

Nebraska—RIFLE RANGES—U. S. Eng., ... Jackson St., Omaha, rifle ranges, Contr. ...-Eng-4204, Fillmore, Clay and Thayer ...nties, to Roberts Constr. Co., 1018 Ter... ...al Bldg., Lincoln, **$50,000-$100,000.**

Nebraska—ROOF REPAIRS, etc.—U. S. ..., 1709 Jackson St., Omaha, roof repairs, ... construction, Redwillow Co., to Seaman ...Schuske Metal Works Co., 4 and Mitchell ... St. Joseph, Mo., under **$50,000.**

Nebraska — SEEDING — U. S. Eng., 1709 ...kson St., Omaha, addnl. seeding, Scotts... ...ff Co., to C. E. Morton, Scottsbluff. Est. ...er **$50,000.**

Nebraska—TRACKAGE—U. S. Eng., 1709 ...kson St., Omaha, trackage, Contr. 643-Eng-... Hall Co., to Union Pacific Railroad Co., ... Dodge St., Omaha. Under **$50,000.**

Nebraska—TRAINING AIDS—U. S. Eng., ... Jackson St., Omaha, training aids, Box ...te Co., to Cooper Const. Co., 4610 Douglas ... Omaha. Est. under **$50,000.**

New Jersey—GASOLINE FUELING SYS... —U. S. Eng., 6 and Walnut Sts., Phila., ... gasoline fueling sys., Contr. 697-Eng-... Cumberland Co., to Miele Plbg. Heating ...Constr. Co., 6343 Vine St., Phila., Pa., under ...,000.

N. J., Lakehurst—IMPROVEMENTS—Civil ...eronautics Admin., LaGuardia Field, Jackson ...ights, Long Island, N. Y., imprvs., radio ...alizer station, incl. new engine generator in ..., broadcast antenna sys. installation, to ...igati Constr. Co., Far Rockaway, N. Y., ... **$50,000.**

New York—NET STRUCTURES, etc.— ...S. Eng., 120 Wall St., New York, Zone 5, ... structures, Contr. 1097-Eng-4168, and ...nage, Contr. 1097-Eng-4153, both Suffolk ... to Andrew Weston Co., Inc., 158 Irving ... Woodmere, under **$50,000** and **$50,000-...,000** respectively.

North Carolina — HEATING SYSTEM — ...S. Eng., Florence, S. C., heating sys., ...land Co., to M. B. Kahn Constr. Co., ...mbia, S. C., under **$100,000.**

N. C., Washington — IMPROVEMENTS — ...l Aeronautics Admin., Municipal Airport, ...anta, Ga., imprvs., clearing, grubbing, ...ving, grading, drainage, paving, seeding, ...ging, etc., to R. B. Tyler, 1446 Levering ... Louisville, Ky., and Monroe, N. C., ...,208. Awarded 7/16.

Ohio—TRACKAGE—U. S. Eng., 522 U. S. ... Office & Courthouse, Cincinnati, trackage, ...tr. 203-Eng-2269, Franklin Co., to Jones ...tracting Co. Inc., 808 Murphy Bldg., ...hland Park, Detroit, Mich., under **$50,000.**

Oklahoma — HANGAR TYPE DOORS — ...S. Eng., 416 Wright Bldg., Tulsa, installing ...gar type doors, Contr. 957-Eng-2011, Tulsa ... to Carlson Building Specialties, 2628 S. ...ramento St., Chicago, Ill., **$50,000-$100,000.**

Oklahoma—IMPROVEMENTS—U. S. Eng., ... W. Main St., Denison, Tex., imprvs., ...ding, drainage, to L. Spencer Constr. Co., ...rollton, Tex., **$50,000-$100,000;** imprvs., ... palliative treatment, to Drake Constr. ... Muskogee, under **$50,000,** both in Jack... ...Co.

Oklahoma—IMPROVEMENTS—U. S. Eng., ... Wright Bldg., Tulsa, imprvs., concrete ...ng, Payne Co., to Western Contracting ..., 2100 E. 4 St., Sioux City, Ia., **$100,000-...,000.**

Oklahoma—IMPROVEMENTS—U. S. Eng., ... W. Main St., Denison, Tex., imprvs., ...ding, drainage, paving, Tillman Co., to ...W. McKinney, Nacogdoches, Tex. **$200,000-...,000.** Awarded 7/8.

Oklahoma—IMPROVEMENTS—U. S. Eng., ... Wright Bldg., Tulsa, imprvs., dust pal... ...ve treatment, Sol. 957-Neg-43-320, Wood... ...d Co., to Koss Constr. Co., 205 Old Colony ..., Des Moines, Ia., **$50,000-$100,000.**

†Oklahoma—TURFING—U. S. Eng., 416 Wright Bldg., Tulsa, turfing, Oklahoma Co., to Houston Lawn Service and Day P. McNeel Co., 1520 Main Ave., San Antonio, Tex. Est. under **$50,000.**

†Texas — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., San Antonio, electrical distr. sys., Contr. 2161-Eng-1425, Bexar Co., to Graham & Collins Electric Co., 709 Ave. A, San Antonio, under **$50,000.**

†Texas — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 416 Wright Bldg., Tulsa, Okla., electrical distr. sys., Dallam Co., to North Texas Constr. Co., Sherman, under **$50,000.**

†Texas — IMPROVEMENTS — U. S. Eng., Fort Sam Houston, imprvs., Bastrop Co., to Leland Fikes, Liberty Bank Bldg., Dallas, under **$50,000.**

†Texas—LANDING FIELD—U. S. Eng., San Antonio, landing field, Contr. 2161-Eng-1416, Tom Green Co., to Bill McSwane, San Angelo, under **$50,000.**

†Texas — OUTSIDE TRANSMISSION & LIGHTING, etc.—U. S. Eng., 25 St. and Avenue F, Galveston, outside transmission and lighting for areas, etc., Sol. 359-43-C143, Victoria Co., to N. R. Smith, P. O. Box 140, Bryan, under **$50,000.**

†Texas—TRUSSES, etc.—U. S. Eng., Fort Sam Houston, reinforcing trusses, etc., Webb Co., to H. B. Zachry, P. O. Box 596, San Antonio, and Laredo, under **$50,000.**

†Texas — TRUSS REINFORCING — U. S. Eng., Albuquerque, N. M., truss reinforcing, Contr. 911-Eng-2061, El Paso Co., to R. D. Lowman, El Paso, under **$50,000.**

†Texas—WALLS—U. S. Eng., San Antonio, walls, Contr. 2161-Eng-1421, Bexar Co., to Day P. McNeel Co., Inc., 1520 Main Ave., San Antonio, under **$50,000.**

†Tex., Fort Worth—IMPROVEMENTS—Dpt. Commerce, c/o Civil Aeronautics Admin., Neil P. Anderson Bldg., Seventh and Lamar Sts., imprvs., dirt moving, to Fred Hall & Son, Professional Bldg., Waco, **$195,174;** concrete runway, to Austin Road Co., 1713 Clarence St., Dallas, **$257,540.** Awarded 7/12.

Tex., Mineral—OIL WELL—Transwestern Oil Co., Milan Bldg., San Antonio, drilling, developing new 7,500 ft. oil well test, to Allen & Morris, Alamo National Bank Bldg., San Antonio, about **$25,000.**

†Washington—CONSTRUCTION—U. S. Eng., 800 3 Ave., Seattle, Zone 4, general construction, Clallam Co., to Sound Construction Co. and Peter Kiewit & Sons, Northern Life Tower, Seattle, Zone 1, **$50,000-$100,000.**

†Washington—CONSTRUCTION—U. S. Eng., 800 3 Ave., Seattle, Zone 4, addnl. construction, Grant Co., to Woodworth & Co., and Macdonald Bldg. Co., Moses Lake, **$50,000-$100,000.**

†Washington—CONSTRUCTION—U. S. Eng., 800 3 Ave., Seattle, Zone 4, addnl. construction, King Co., to Foster & Kleiser, 5 Ave. N. and Roy St., Seattle, Zone 9, under **$50,000.**

†Washington—CONSTRUCTION—U. S. Eng., 800 3 Ave., Seattle, Zone 4, addnl. construction, Spokane Co., to Clyde M. Ludberg Co., W. 326 1 Ave., Spokane, under **$50,000.**

†Washington—COOLING UNIT—U. S. Eng., 800 3 Ave., Seattle, Zone 4, cooling unit, King Co., to Independent Sheet Metal Corp., 1723 Westlake Ave. N., Seattle, Zone 9, under **$50,000.**

†Washington — ELECTRICAL DISTRIBUTION, etc.—U. S. Eng., 800 3 Ave., Seattle, Zone 4, electrical distr. sys. addn., King Co., to C. B. Campbell, 112 Lakeside Ave., Seattle, Zone 22, under **$50,000*****addnl. fire alarm and sprinkler sys., to Grinnell Co. of the Pacific, 3101 Elliott Ave., Seattle, Zone 99, under **$50,000*****enlarging facilities, to W. G. Clark, 408 Aurora Ave., Seattle, Zone 1, under **$50,000*****addnl. construction, to Austin Co., 16112 Euclid St., Cleveland, O., **$100,000-$500,000,** all foregoing in King Co.

†Washington — ELECTRICAL SERVICE — U. S. Eng., 800 2 Ave., Seattle, Zone 4, electrical service, Kittitas Co., to Gaasland Constr. Co., 1161 Ellis St., Bellingham, under **$50,000.**

†Washington—GASOLINE STORAGE FACILITIES—U. S. Eng., 800 3 Ave., Seattle, Zone 4, gasoline storage facilities, Grant Co., to C. M. Ludberg, W. 326 1 Ave., Spokane, under **$50,000.**

†Washington—LIGHTING SYSTEM—U. S. Eng., 800 3 Ave., Seattle, Zone 4, lighting sys., King Co., to V. S. McKenny, 104 Wall St., Seattle, Zone 1, under **$50,000.**

†Washington—RAILROAD—U. S. Eng., 800 3 Ave., Seattle, Zone 4, railroad construction, Snohomish Co., to Atherton Constr. Co., Terminal Sale Bldg., Seattle, Zone 1, under **$50,000.**

★**United States**—HANGARS—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., inspection and repair timber hangars, NOY 6943, to Bryne Organization, 2701 N. Fitzhugh St., Dallas, Tex., **$1,-500,000.**

★**Alta., Edmonton**—IMPROVEMENTS—Dpt. Natl. Defense (Air), Ottawa, Ont., imprvs., etc., near here, to Coast Constr. Co., Ltd., Vancouver, B. C., **$6,500,000.**

Alta., Wainwright—IMPROVEMENTS—Dpt. Transport, Ottawa, Ont., imprvs., to Gibbs Bros., Ltd., Wainright, about **$82,000.**

Nova Scotia—COASTAL DEFENSE PROJECT—Dpt. National Defense (Army), Ottawa, Ont., coastal defense project, to E. G. M. Cape & Co., Ltd., 620 Cathcart St., Montreal, Que., **$450,000.**

N. S., Bedford Basin—LOADING WHARF—Canadian National Rys., H. A. Dixon, ch. engr. (oper.), 360 McGill St., Montreal, Que., loading wharf, 325 ft. long, 34 ft. wide, connected to land by trestle approach on piles, 1,026 ft. long, 24 ft. wide and railway spur, to Foundation Maritime, Ltd., 135 Lower Water St., Halifax, about **$100,000.**

Ont., Malton (Toronto)—IMPROVEMENTS—Trans-Canada Airlines, 355 McGill St., Montreal, Que., imprvs., completion hangar, to Dickie Const. Co. Ltd., 17 Yorkville Ave., Toronto, about **$175,000.** Bids 7/6. CD 6/30.

Ont., Ottawa—IMPROVEMENTS—Transport Dpt., Ottawa, imprvs. clearing, stumping, grubbing, grading, fencing, drainage, etc., to Dibblee Constr. Co. Ltd., 248 Albert St., Ottawa, about **$110,000.**

Ont., Toronto—DOCK—Neilson, Ltd., 277 Gladstone Ave., dock, to Foundation Co. of Ontario, Ltd., 1158 Bay St. Est. **$25,000.** Mathews & Haldenby; 96 W. Bloor St., archts.

Que., Windsor Mills — IMPROVEMENTS — Dpt. Natl. Defense (Air), Ottawa, Ont., imprvs., grading, concrete taxi-strip, drainage, etc. at E. F. T. School, to H. L. Ray, Lake Megantic, **$60,000.** CD 5/20—ENR 5/27.

Que., Quebec City—IMPROVEMENTS—Dpt. Natl. Defense (Army), Ottawa, Ont., imprvs., to Francois Jobin, Inc., 88 St. Louis Rd., about **$175,000.**

Sask., Buttress — IMPROVEMENTS — Dpt. Transport, Ottawa, Ont., imprvs., water supply mains, to R. B. McLeod & Co. Ltd., Saskatoon, about **$22,500.**

LATIN AMERICA

Mexico—Gen. A. L. Rodriguez, Guaymas, Sonora, plans vitamines food products factory, by company, Vitaminica y Extracciones, S. A., **Guaymas, Sonora,** $350,000; San Souici Co., Havana, Cuba, plans de luxe cabaret bldg., **Mexico City,** $725,000, owners represented in Mexico by Miguel Triay, Hotel Reforma, Mexico City; Tampico Govt., Palacio Municipal, Tampico, plans 2 public markets, **Tampico, Tamaulipas,** $100,000 each; Dr. R. Albuerne, Saltillo, Coahuila, plans cement factory, **Saltillo, Coahuila** $250,000.

Mexico, Mexico City—National Rys. of Mexico (Ferrocarriles Nacionales de México), L. Reina, ch. engr. M.W., Mexico City, D.F., embankment reinforcement and bridging on line between Nuevo Laredo and Mexico City. Engineering Dpt. P. Wks. & Communications, Mexico City, engrs.

PUBLIC BUILDINGS

PROPOSED WORK

†Alabama—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., plans by P. W. Hofferbert, Gadsden, family dwelling units, Ala. 1210 and Ala. 1211, and dormitory units, Ala. 1212. CD 6/23—ENR 7/1.

†Alabama—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., plans by H. J. Frahn, Sheffield, family dwelling units, Ala. 1213. CD 6/23—ENR 7/1.

†Arizona—Pub. Housing Auth., NHA, 785 Market St., San Francisco, Cal., plans by Gilmore & Varnez, 305 Luhrs Bldg., Phoenix, family dwelling units, Ariz. 2325. CD 7/1—ENR 7/8.

★**†Ariz., Tucson**—Defence Plant Corp., 811 Vermont Ave. N.W., Wash., D. C., expanding existing plant, $2,500,000. Goodyear Aircraft Corp., Akron, O., will operate. CD 6/10—ENR 6/17.

★**†Arkansas**—Defense Plant Corp, 811 Vermont Ave. N.W., Wash., D. C., zinc recovery plant, $550,000.

†Ark., Pine Bluff—Home Owners' Loan Corp., Sterick Bldg., Memphis, Tenn., 100 family unit conversion program.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, housing, Spec. 1027, Central California.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, bldg., No. 103s, San Francisco Co.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, bldg., Spec. 1019, San Francisco Co.

†Calif., Berkeley — Home Owners' Loan Corp., 821 Market St., San Francisco, plans by M. D. Reynolds, 564 Market St., San Francisco, conversion residence, 2434 Durant Ave., to provide addnl. living units. Over $5,000.

PUBLIC BLDGS. (Proposed Work, Cont'd.)

†**Calif., Eureka**—Home Owners' Loan Corp., Pacific Bldg., San Francisco, 50 family unit conversion program.

†**Calif., San Diego**—Pub. Housing Auth., NHA, 785 Market St., San Francisco, plans by Geo. Adams & Johnson, Theo. Criley, Graham Latta & W. Lodge, Architects Bldg., Los Angeles, dwelling units, Calif. 4735, and dormitory accommodations, Calif. 4736; plans by H. Louis Bodemer, W. Wurdeman & Welton D. Becket, Archts. Bldg., Los Angeles, dwelling units, Calif. 4737; plans by E. F. Gilberson & R. C. Flewelling, Architects Bldg., Los Angeles, dwelling units, Calif. 4738. CD 7/8—ENR 7/15.

†**Calif., San Francisco**—Home Owners' Loan Corp., Pacific Bldg., San Francisco, 250 family unit conversion program.

†**Calif., San Francisco**—Home Owners' Loan Corp., Pacific Bldg., plans by Wm. Mooser, 251 Kearny St., conversion of residence into 6 units. $10,000.

†**Calif., San Francisco**—Home Owners' Loan Corp., 821 Market St., plans by A. R. Williams, 251 Post St., San Francisco, conversion residence, 863-65-67 Fillmore St. to provide 6 living units. $10,000.

†**Connecticut**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., plans by Lindsay & Johnson, 211 State St., infirmary bldgs., Conn. 6058 and Conn. 6059.

†**Connecticut**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., plans by Mylcreest & Reynolds, 238 Palm St., Hartford, family dwelling units, Conn. 6203 and dormitory units, Conn. 6204. CD 6/23—ENR 7/1.

†**Conn., Hartford**—Home Owners' Loan Corp., 2 Park Ave., New York, N. Y., 100 family unit conversion program.

†**Conn., Hartford**—Welfare Dpt., 2 Holcomb St., revised plans by Ebbets & Frid, 15 Lewis St., hospital bldg. $200,000. **FWA.** CD 12/24—ENR 12/31.

†**Florida**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., plans by Yonge & Hart, Thiesen Bldg., Pensacola, family dwelling units, Fla. 8209. CD 6/23—ENR 7/1.

†**Florida** — Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., plans by Southern Associates, Guaranty Bldg., West Palm Beach, dormitory units, Fla. 8211 and family dwelling units, Fla. 8212. CD 6/30—ENR 7/8.

†**Georgia**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, plans by W. N. Parson, Jr., SFC Bldg., Atlanta, dormitory units, Ga. 9159, and family dwelling units, Ga. 9160. CD 6/23—ENR 7/8.

†**Ga., Rome**—Home Owners' Loan Corp., 114 Marietta St., Atlanta, 40 family unit conversion program.

†**Ill., Chicago**—Pub. Housing Auth., NHA, 201 N. Wells St., 1,500 temporary family units, Ill. 2-7.

†**Kansas**—Pub. Housing Auth., NHA, Dierks Bldg., 1006 Grand Ave., Kansas City, Mo., postponed bids to have been opened July 13, school and commercial bldgs., for Kansas 14072. Marshall & Brown, 114 W. 10 St., Kansas City, Mo., engrs.-archts. CD 2/17—ENR 2/25.

†**La., Alexandria**—Pub. Housing Auth., NHA, 1205 Electrical Bal., Seventh and Taylor Sts., Fort Worth, Tex., 300 temporary units, La. 16095.

La., Morgan City—Mayor and City Council, expanding facilities light, water and power plant. $138,500.

La., De Quincy—Calcasieu Parish School Bd., Lake Charles, plans by Dunn & Quinn, Lake Charles, school. $175,000.

†**Maine**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., rejected bids June 17, sewage treatment plant, sewage treatment tank, piping, drains, etc., Me. 17039. CD 6/22—ENR 6/24, under LB.

†**Maine**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., plans by Wadsworth & Boston, 57 Exchange St., Portland, dormitory units, Me. 17078. CD 6/23—ENR 7/1.

†**Maine**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., plans by Wadsworth & Boston, 57 Exchange St., Portland, family dwelling units, Me. 17079. CD 6/23—ENR 7/1.

†**Maryland**—Defense Plant Corp., 811 Vermont Ave. N. W., Wash., D. C., addnl. plant facilities. $60,000. Bendix Aviation Corp., 2306 E. Orleans St., Baltimore, will operate.

†**Michigan** — Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, O., plans by W. E. Kapp, 730 Buhl Bldg., Detroit, frame housing, M-20115. CD 6/10—ENR 6/17.

†**Mich., Pontiac**—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, O., 150 trailer housing, Mich. 20206.

†**Nebraska** — Pub. Housing Auth., NHA, Dierks Bldg., 1006 Grand Ave., Kansas City, Mo., plans by Kimball, Steele & Sandham, engrs.-archts., 625 Electric Bldg., Omaha, family dwelling units, Neb. 25072. CD 6/23—ENR 7/1.

†**Nebraska** — Pub. Housing Auth., NHA, Dierks Bldg., 1006 Grand Ave., Kansas City, Mo., plans by Kimball, Steele & Sandham, engrs.-archts., 625 Electric Bldg., Omaha, dormitories, Neb. 25073. CD 6/23—ENR 7/1.

†**Nebraska** — Pub. Housing Auth., NHA, Dierks Bldg., 1006 Grand Ave., Kansas City, Mo., housing.

†**N. H., Portsmouth**—United Service Organization, c/o M. E. Witmer, Hillside Dr., archt., bids soon brick bldg., Daniel St.

★†**N. J., Paterson**—St. Joseph's Hospital, 703 Main St., plans by Fanning & Shaw, 48 Ward St., temporary nurses' home, $711,600. **FWA.** CD 7/2—ENR 7/8.

★†**New York**—American Aviation Corp., R. N. Webster, pres., P. O. Box, Jamestown, bids soon, aircraft mfg. plant expansion, facilities, incl. new hangar, cafeteria in basement, boiler house, paint storage bldg., processing bldg., lengthening runways, etc. $950,000. Federally financed. Beck & Tinkham, Bailey Bldg., Jamestown, archts. CD 7/8—ENR 7/15, under New York, Industrial Bldgs.

†**New York**—U. S. Maritime Comn., 45 Bway., New York, making plans and bids probably in August, bldg. $250,000. CD 7/15.

†**Okla., Bartlesville**—Phillips Petroleum Co., c/o F. Phillips, Bartlesville, catalytic plant unit. Project held up. **Defense Plant Corp.** will finance. CD 4/13—ENR 3/18.

†**Oregon**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle 1, Wash., plans by Stanton & Johnston, Railway Exchange Bldg., Portland, trailer housing, Ore. 35264. CD 6/30—ENR 7/8; family housing, Ore. 35269, and dormitory housing, Ore. 35270. CD 7/8—ENR 7/15.

†**Oregon**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle, Zone 1, Wash., plans by Stanton & Johnston, Railway Exchange Bldg., Portland, trailer housing, Project 35265. CD 7/8—ENR 7/15.

†**Oregon**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle 1, Wash., plans by Stokes & Allyn, Hughes Bldg., Portland, family housing, Ore. 35268. CD 7/8—ENR 7/15.

†**Oregon**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle 1, Wash., plans by Stokes & Allyn, Hughes Bldg., Portland, trailer housing, Ore. 35267. CD 6/30—ENR 7/8. Temporary dormitory housing, Ore. 35266. CD 7/8—ENR 7/15.

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York 7, N. Y., sewage disposal plant, water pump. sta. Albright & Friel, 1520 Locust St., Phila., engrs.

†**Pa., Coatesville**—Pub. Housing Auth., NHA, 270 Bway., New York 7, N. Y., 160 unit family housing, Pa. 36274.

†**Pa., Hatboro**—Federal Works Agency, 101 Park Ave., New York, N. Y., school.

★†**Texas**—Defense Plant Corp., 811 Vermont Ave. N. W., Wash., D. C., refinery plant expansion, imprvs. $1,000,000. Taylor Refining Co., Taylor, lessee and operator. Project held up. CD 4/16—ENR 4/22.

†**Texas**—Pub. Housing Auth., NHA, 1205 Electric Bldg., Seventh and Taylor Sts., Fort Worth, trailers and hutments.

†**Texas**—Pub. Housing Auth., NHA, 1205 Electric Bldg., Seventh and Taylor Sts., Fort Worth, family dwelling units.

†**Tex., Beaumont, Orange** and **Port Arthur**—Pub. Housing Auth., NHA, 1205 Electric Bldg., Seventh and Taylor Sts. Fort Worth, 2,000 temporary dormitory units (stop-gap shelter), Tex. 41594; 500 family dwelling units, Tex. 41595; 250 dormitory units, Tex. 41596; 300 trailer units, Tex. 41597.

†**Tex., Brownsville**—Brownsville Housing Auth., 100 or more dwellings, for NHA.

†**Tex., Fort Worth**—Home Owners' Loan Corp., Cotton Exchange Bldg., Dallas, 200 family unit conversion program.

Va., Maddawadox—Northampton Accomack Memorial Hospital, Maddawadox, plans by A. M. Lubin, Dickson Bldg., Norfolk, hospital addn. $156,500. E. Thompson, Nichols, Newport News, engr.

†**Washington**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle, Zone 1, plans by V. M. Jones, Republic Bldg., Seattle, Zone 1, 40 unit housing, No. 45225. CD 6/23—ENR 7/8.

†**Washington**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle, Zone 1, plans by Priteca & Shay, Skinner Bldg., Seattle, Zone 1, housing, No. 45226. CD 6/23—ENR 7/8.

†**Washington**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle, Zone 1, plans by J. W. Maloney, Larson Bldg., Yakima, family housing, No. 45223, and dormitory, No. 45224. CD 6/23—ENR 7/8.

†**Washington**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle, Zone 1, plans by Stoddard & Jones, Orpheum Bldg., Seattle, Zone 1, housing, No. 45299. CD 6/30—ENR 7/8.

†**Washington**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle, Zone 1, plans by Stoddard & Jones, Orpheum Bldg., Seattle, Zone 1, family housing, Wash. 45228.

†**Washington**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle, Zone 1, plans by J. W. Maloney, Larson Bldg., Yakima, housing, Wash. 45232. CD 7/8—ENR 7/15.

†**Washington**—U. S. Eng., 800 3 Ave., Seattle, Zone 4, bldg. alterations, NEG. 648, King Co.

†**Wyoming**—Pub. Housing Auth., NHA, Dierks Bldg., 1006 Grand Ave., Kansas City, Mo., postponed bids to have been opened July 28, temporary dwelling units, Wyo. 4806. Five Associates, Belvidere H... Salt Lake City, Utah, engrs.-archts. CD 6/30—ENR 7/8.

BIDS ASKED

Bids Asked After July 15

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York 7, N. Y., ... and commercial bldgs., Pa. 36261. Silverman & Levy, 1700 Sansom St., Phila., archts. CD 6/11—ENR 6/17.

Bids Asked After July 17

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York 7, N. Y., road for housing project **PA-36111**, for Westmoreland County Housing **Auth.**, New Kensington.

Bids Asked After July 20

†**Kentucky**—Pub. Housing Auth., NHA, ... E. 9 St., Cleveland, O., housing, Ky. ... Extended date. Meriwether, Gilling & Francis, 238 E. Short St., Lexington, archts. CD 6/4—ENR 6/24.

Bids Asked July 26

†**Maine**—Pub. Housing Auth., NHA, ... School St., Boston, Mass., alterations, ... site imprvs., installing fixtures, store bldg., Me. 17031. Plans deposit $50 first set, $5 each addnl. set.

Bids Asked July 27

†**Ga., Warner Robins**—Pub. Bldg. Admin., 18 and F Sts. N.W., Wash., D. C., school bldg., Ga. 9231. $200,000. **FWA.** CD 6/23—ENR 7/1.

†**Ga., Wellston**—Pub. Bldgs., Admin. FWA, Candler Bldg., Atlanta, school bldg., Ga. 9231, $130,000. Dennis & Dennis, 756 Mulberry St., Macon, archts. CD 6/18—ENR 6/24.

†**Mich., Dearborn**—State Engineer, Federal Works Agency, 2933 Barlum Tower, Detroit, brick, concrete, frame schoolhouse, Mich. 229. **FWA.** Plans deposit $10. F. D. Madison, 230 Wayne-Oakland Bank Bldg., Royal Oak, archt.

†**Ohio**—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, temporary family dwellings, Ohio 33263. Plans deposit $50. Potter, Tyler & Martin, 35 E. 7 St., Cincinnati, archts. CD 7/12—ENR 7/15.

†**Ohio**—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, housing, Ohio 33265. Plans deposit $50. Extended date. Britsch & Munger, 1025 Nicholas Bldg., Toledo, archts. CD 6/30—ENR 7/8.

Bids Asked July 28

†**Ill., Granite City**—St. Elizabeth's Hospital, Sister Mary Lucina, secy., Sisters of Divine Providence, 2100 Madison St., construction completion 5 story, brick hospital addn., Ill. 11-178. $150,000 **FWA.** R. V. McCann, 2 Elm Ave., Glendale, St. Louis, 22, Mo., and G. E. Quick and G. J. Maguolo, associates, 5709 Waterman Ave., St. Louis, 12, Mo., archts. CD 4/26—ENR 4/29.

Bids Asked July 29

†**Alabama**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., family dwelling units, Ala. 1209, Plans deposit $50. Ed. Miller, 90 Tuskegee Institute, Tuskegee, archt. CD 7/1.

†**Pa., Bethlehem**—Pub. Housing Auth., NHA, 270 Bway., New York 7, N. Y., 200 unit temporary family dwellings, Pa. 36425, for Bethlehem Housing Auth., Pembroke Village, 1161 Fritz Dr. Plans deposit $50. CD 7/8—ENR 7/15.

†**Wyoming**—Pub. Housing Auth., NHA, Dierks Bldg., 1006 Grand Ave., Kansas City, Mo., temporary dwelling units, Wyo. 4806. Extended date. R. L. Linder, 507 Insurance Bldg., Denver, Colo., engr.-archt. CD 6/30—ENR 7/8.

†**Wyoming** — Pub. Housing Auth., NHA, Dierks Bldg., 1006 Grand Ave., Kansas City, Mo., administration bldg., Proj. 48011. Fisher & Fisher, Denver National Bldg., Denver, Colo., engrs.-archts. CD 6/23—ENR 7/8.

Bids Asked July 30

†**California**—Pub. Housing Auth., NHA, 760 Market St., San Francisco, or Charles F. Butner, archt., 7 Winham St., Salinas, dormitory and maintenance office bldgs., Calif. 4715. CD 7/1—ENR 7/8.

†**South Carolina**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., cafeteria bldg., ... housing, $100,000. Plans deposit $20. Clay Foundstone, Palmer Bldg., Atlanta, Ga., engr.-archt.

Bids Asked After August 1

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York 7, N. Y., housing Proj. 36436. Gleeson & Mulrooney, Fox Bldg., Phila., archts. CD 7/6—ENR 7/8.

Bids Asked August 3

★†**Conn., Bridgeport**—St. Vincent's Hospital, W. Stapleton, chn. Advisory Bd., 2820 Main St., brick, steel, limestone hospital addn., Conn. 6-134. $1,115,000. J. Gerald Phelan, 211 State St., archt. CD 5/20—ENR 5/27.

Bids Asked About August 5

†**Okla., Midwest City**—Pub. Bldgs. Admin., Emergency Operations Unit, 18 and F Sts.

LIC BLDGS. (Bids Asked, Cont'd.)
W., Wash., 25, D. C., grade and high ... $150,000. **FWA.** Hudgins, Cobb, apson & Ball, 919 Cotton Exchange Bldg., homa City, archts. CD 4/16—ENR 4/22.

Bids Asked August 6

†**Virginia**—Pub. Housing Auth., NHA, Tem- ry Bldg. 2, 19 and D Sts. N. W., Wash., ... 858 unit family dwellings. VA-44279. ended date. CD 6/16—ENR 6/24.

Bids Asked August 9

†**Kansas**—Pub. Housing Auth., NHA, Dierks ... 1006 Grand Ave., Kansas City, Mo., ling units, Kan. 14134. Spencer & ... 418 Central Bldg., Topeka, engrs.- ... CD 6/23—ENR 7/1.

Bids Asked About August 10

†**Kentucky**—Pub. Housing Auth., NHA, ... E. 9 St., Cleveland, O., temporary family ... Ky. 15105. Extended date. Plans ... $50. Wilson, Bell & Watkins, 14 ... St., Lexington, archts. CD 6/18— ... 6/24.

Bids Asked After August 14

†**Pennsylvania**—Pub. Housing Auth., NHA, ... Bway., New York 7, N. Y., tenant activity ... child care center, Pa. 36111, for West- ... land County Housing Auth., New Ken- ... on. CD 7/14.

Bids Asked August 17

†**Ala., Tuskegee**—Veterans Admin., Vermont ... between H and I Sts. N. W., Wash., ... N. P. Infirmary Bldg. 4. Extended ... CD 6/17—ENR 6/24.

Bids Asked August 17

†**Maryland** — Pub. Housing Auth., NHA, ... orary Bldg. 2, 19 and D Sts. N. W., ..., D. C., dormitory housing, Md. 18261; ... ing units housing, Md. 18263; dormitory ... ng, Md. 18262; family dwelling units, ... 18264; family units, Md. 18265, all fore- ... in St. Mary's Co. Extended tentative ... CD 7/1—ENR 7/8 under BA.

Bids Asked

†**Louisiana**—U. S. Eng., 25 St. and Avenue ... Galveston, Tex., addnl. bldgs., Orleans ... arish.

Bids Asked

†**Maine**—Pub. Housing Auth., NHA, 24 ... ol St., Boston, Mass., dormitory housing, ... 17077. Extended date. Plans deposit ... irst set, $10 each addnl. set. Wadsworth ... oston, 57 Exchange St., Boston, Mass., ... ts. CD 7/9—ENR 6/10.

†**New Mexico**—U. S. Eng., Albuquerque, ... facilities, Luna Co. Over $40,000.

†**Texas**—U. S. Eng., Fort Sam Houston, ... Val. Verde Co.

†**Texas**—U. S. Eng., Fort Sam Houston, ... addnl. facilities, Taylor Co.

BIDDERS

†**Ariz., Fort Huachuca** — Pub. Housing ... uth., NHA, 785 Market St., San Fran- ... Calif., temporary dwelling units, Ariz. ... dormitory and community bldg., Ariz. ... temporary dwelling units, Ariz. 2321; ... itory, Ariz. 2322; and dormitories and ... unity bldg., Ariz. 2323, from Elder R. ... n & Co., 2300 Huntington Dr., San ... o, Calif., **$547,000.** CD 7/1.

†**California**—Pub. Housing Auth., NHA, 785 ... ket St., San Francisco, dormitory units, ... 4717 and dwelling units, Calif. 4719, ... o Co., from Lawrence Constr. Co., 3020 ... Sacramento, **$444,713,** Timothy L. ... ger, 580 Market St., San Francisco, archt.

†**Georgia** — Pub. Housing Auth., NHA, ... eorgia Savings Bank Bldg., Peachtree ... Broad Sts., Atlanta, July 16, dwelling ... Ga. 9156 and Ga. 9158 from R. M. Lee, ... W. Peachtree St., Atlanta. Bid (1) ... 401. Bid (2) **$930,491.** CD 6/30—ENR ...

†**Louisiana**—U. S. Eng., 25 St. and Avenue ... Galveston, Tex., July 10, bldgs., etc. ... 359-43-C 173, Vernon Parish, from ... er Co. 1320 Pierre Ave., Shreveport, ... $50,000.

†**Michigan**—Pub. Housing Auth., NHA, 9 ... and Prospect Ave., Cleveland, O., ... dwelling units from A. H. Proksch, ... River, **$598,500.** CD 5/12.

†**Mississippi**—Pub. Housing Auth., NHA, ... eorgia Savings Bank Bldg., Peachtree ... Broad Sts., Atlanta, Ga., July 16, hous- ... Miss. 22159, 11260, 22163 and 22164 from ... lair, 1st Natl. Bank Bldg., Montgomery, **$967,418;** housing, Miss. 22161 and 22162, ... R. P. Farnsworth & Co., Inc., 1515 S. ... do St., New Orleans, La. **$175,940.** CD ... ENR 7/1.

†**Nebraska**—Pub. Housing Auth., NHA, ... s Bldg., 1006 Grand Ave., Kansas City, ... July 10, dwellings, community bldg., ... 25068, from J. P. Cullen & Son, Janes- ... Wis., $435,400. CD 6/21—ENR 6/24.

†**New Jersey**—Pub. Housing Auth., NHA, ... 70 Bway., New York 7, N. Y., July 12, ... ng, NJ 28160 and NJ 28161, from John A. ... son & Sons, 268 41 St., Brooklyn, N. Y., ... Bids (1), **$541,000 (3), $759,000.** CD 7/1 ... 7/8.

†**New Jersey**—Pub. Housing Auth., NHA, ... Bway., New York 7, N. Y., July 13, gen- ... contract community and store bldgs., ... service center, bus shelter, NJ 28071, from Green Constr. Co., 295 Madison Ave., New York, N. Y., **$154,450.** CD 7/1—ENR 7/8.

†**New Mexico**—Pub. Housing Auth., NHA, 1205 Electric Bldg., Fort Worth, Tex., July 12, family dwellings, NM 29166, from F. R. Orshek, Amarillo, **$409,700.** CD 6/29—ENR 7/1.

★†**Ohio**—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, July 8, housing, Ohio 33269, from Madsen Const. Co., 1790 Lyndale Ave. S., Minneapolis, Minn., **(a)** frame, dry wall, **$504,800, (b)** masonry, dry wall, **$539,800, (c)** frame, plaster, **$526,800 (d)** masonry, plaster, **$575,800.** CD 6/30—ENR 6/24.

★†**S. C., Charleston** — Medical Society of South Carolina, Charleston, July 14, 7 story, bsmnt. Roper Hospital addn., Calhoun St., S. C. 38-139, from F. N. Thompson, P. O. Box 1748, Raleigh, N. C., **$503,000;** electrical work, from All State Electric Co., Winston Salem, N. C., **$65,709. FWA.** CD 6/24—ENR 7/1.

CONTRACTS AWARDED

†**Alabama**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., community and 2-child service center bldgs., to Algernon Blair, First National Bank Bldg., Montgomery, **$107,600.** Bids 7/8. CD 6/23—ENR 7/1.

†**Alabama**—U. S. Eng., Grant St. west of Westwood St., Mobile, temporary frame bldgs., utilities, Contr. 569-Eng-5245, Tuscaloosa Co., to N. C. Morgan Constr. Co., Tuscaloosa, **$100,000-$500,000.**

★†**California**—City of Alameda Housing Auth., 511 Buena Vista Ave., Alameda, family dwelling units, Calif. 4693 for NHA, to L. Epp, 4745 Geary Blvd., San Francisco, **$609,377.** CD 6/9—ENR 6/10.

★†**California** — City of Oakland Housing Auth., 935 Union St., Oakland, dormitory units Calif. 4694, Calif. 4695, Calif. 4702 and Calif. 4712, on NHA, to C. M. Teigland, 773 University Ave., Berkeley, **$506,808.** Awarded 7/13. CD 7/13—ENR 7/15.

†**California**—Pub. Housing Auth., NHA, 785 Market St., San Francisco, family dwelling units, Calif. 4703; and dormitory units, Calif. 4704, to Frank M. Crane, 1500 Portola Dr., San Francisco, **$158,800,** awarded 7/13. CD 7/7.

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, bldg., No. 753-41, Solano Co., to Willis F. Lynn, 1037 Ashmount Ave., Oakland. Awarded 7/16.

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, Zone 14, bldg., facilities, No. 286C, Riverside Co., to J. M. Roth Constr. Co., 6028 Whittier Blvd., Los Angeles, under **$50,000.** Awarded 7/9.

†**Connecticut**—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., signal warehouse, No. 43-276, Hartford Co., to Wadhams May & Carey Co., 15 Lewis St., Hartford. Est. under **$50,000.** CD 7/13—ENR 7/15.

†**Florida**—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, bldg., Neg-Jax-43-1211, Lee Co., to Sprague Constr. Co., Sarasota, under **$50,000.** Awarded 7/7.

†**Florida**—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, addnl. work in bldg., Neg-Jax-42-1189, Dade Co., to Fred Howland, Inc., 1114 Postal Bldg., Miami, under **$500,000.** Awaded 6/30.

†**Florida**—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, bldgs., Neg-Jax-44-10, Levy Co., to W. D. Berry, Inc., St. Petersburg, under **$50,000.** Awarded 7/10.

†**Florida**—U. S. Eng., 575 Riverside Ave., Jacksonville, Zone 2, bldg., Neg-Jax-44-15, Dade Co., to Fred Howland, Inc., 1114 Postal Bldg., Miami, under **$50,000.** Awarded 7/10.

†**Georgia** — Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, family dwelling units, Ga. 9157, to Ray M. Lee Co., 337 W. Peachtree St. N.W., Atlanta, **$209,975.** CD 7/9.

★†**Georgia** — Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, housing, Ga. 9151 to E. T. Newton, Hattiesburg, Miss., **$2,869,999.** Cancelled construction housing, Ga. 9152.

†**Georgia**—U. S. Eng., Post Office Bldg., Savannah, addnl. bldg., Bullock Co., to W. Allred, Statesboro. Bids 7/12.

★†**Illinois**—Ingalls-Shepard Div. Wyman-Gordon Co., 146 and Wood Sts., 1 story, brick, rein.-con. addnl. factory facilities, to Norris Constr. Co., 59 E. Van Buren St., Chicago. Est. over **$1,000,000.** Defense Plant Corp. will finance. CD 6/18—ENR 6/24.

†**Maryland**—U. S. Eng., Camp Springs, military housing, Prince Georges Co., to C. M. H. Co., 316 Randolph Pl., Wash., D. C., under **$500,000.**

†**Maryland**—U. S. Eng., Aberdeen bldg., to H. B. Alexander & Sons, 3 and Vaughn Sts., Harrisburg, Pa.; bldg., to Leimbach & Williams, 30 W. Biddle St., Baltimore, both foregoing in Harford Co.

†**Maryland**—U. S. Eng., Aberdeen, bldg., Harford Co., to D. Pirracci & Co., 2552 Woodbrook Ave., Baltimore.

★†**Maryland**—Pub. Housing Auth., NHA, Temporary Bldg 2, 19 and D Sts. N.W., Wash., D. C., family dwellings, Md. 18259 and Md. 18260, to John A. Johnson & Sons, 268 41 St., Brooklyn, N. Y., **$585,000.** Bids 7/8. CD 7/12—ENR 7/15 under LB.

†**Maryland**—U. S. Eng., Aberdeen, bldg., alterations, addns., Harford Co., to Armiger Constr. Corp., 2127 Maryland Ave., Baltimore. Est. **$50,000-$100,000.**

†**Michigan**—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, O., temporary housing, MI 20184, to M. E. Greenberg Co., 800 Transportation Bldg., Detroit, **$227,472** (90 day completion). Bids 6/22, awarded 7/8. CD 6/16—ENR 6/10.

†**Mississippi**—U. S. Eng., Grant St., west of Westwood St., Mobile, Ala., temporary frame bldgs., Contr. 569-Eng-5223, Hinds Co., to F. T. Newton, Hattiesburg, **$100,000-$500,000.**

†**Nevada**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., completion of work Noy 6686, under Noy 5401, addnl. facilities, to Wm. P. Nell Co., Ltd., 4814 Loma Vista Ave., Los Angeles, Calif. **$92,338.** Additional to CD 3/18—ENR 3/25 under CA.

†**New Hampshire**—U. S. Eng., 31 St. James Ave., Boston, Mass., temporary housing, No. 175 43-Neg-386, Rockingham Co., to Harty-Blaney Constr. Co., 25 Huntington Ave., Boston, Mass. Est. **$100,000-$500,000.** Bids 6/28.

†**New Mexico**—U. S. Eng., Albuquerque, addnl. construction bldgs., Chaves Co., to Lee Moor Contracting Co., Bassett Tower, El Paso, Tex., **$100,000-$500,000.**

★†**N. Y., St. Albans**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., hospital addn., NOY 6521, to Vermilyea-Brown Co., Inc., 100 E. 42 St., New York, $990,810. Bids 7/2, awarded 7/12. CD 6/25.

★†**North Carolina**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., barracks and mess hall, Marine Corps Air Station, Cherry Point, NOY 6486, to Central Construction Co., 513 1st Natl. Bank Bldg., Atlanta, Ga., **$669,289.** CD 6/24.

★†**Ohio**—U. S. Eng., 522 U. S. Post Office & Courthouse, Cincinnati, temporary frame bldg. addn., Contr. 203-Eng-2283, Franklin Co., to Robert H. Evans & Co., 395 E. Broad St., Columbus, **$500,000-$1,000,000.**

★†**Oklahoma**—Pub. Housing Auth., NHA, 1205 Electric Bldg., Fort Worth, Tex., dormitory housing, Okla. 34071, to Ransdell Const. Co., Liberty Bank Bldg., Dallas, Tex., **$582,000.** Bids 7/7, awarded 7/12. CD 7/13—ENR 7/15, under LB.

†**Pennsylvania**—U. S. Eng., Standard Oil Bldg., Baltimore, Md., temporary frame bldg., Contr. 174-Eng-2160, Mercer Co., to P. W. Glenn, Sharon, **$100,000-$500,000.** CD 6/23—ENR 6/17.

†**Texas**—U. S. Eng., Fort Sam Houston, bldg., facilities, McCulloch Co., to Chas. H. Oehler, 5007 Bway, Galveston, and Travis Bldg., San Antonio, **$100,000-$500,000.** CD 7/2—ENR 7/8.

★†**Texas**—U. S. Eng., 221 W. Main St., Denison, bldgs., from Eckert-Fair Constr. Co., Liberty Bank Bldg., Dallas, **$500,000-$1,000,000.**

★†**Va., Quantico**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., addnl. housing for Marine Corps personnel, NOY 6185, to Harwood-Nebel Constr. Co., 1520 K St. N.W., Wash., D. C., **$838,364.** CD 6/30—ENR 7/8. Bids 7/7.

British Columbia—Dpt. Transport, Ottawa, Ont., transmitter bldg., to Marwell Constr. Co. Ltd., 540 Howe St., Vancouver, **$96,000;** W/T receiving station, to Coast Constr. Co. Ltd., 510 W. Hastings St., Vancouver, **$60,000.**

COMMERCIAL BUILDINGS

PROPOSED WORK

★**Calif., Long Beach**—Owner, c/o C. Hugh Gibbs, archt, 730 Sunrise Blvd., 13 frame, stucco, apartment bldgs., 300 units. Over $500,000.

Calif., Torrance—Owner, c/o C. Hugh Gibbs, archt., 730 Sunrise Blvd., Long Beach, 4 frame, stucco, apartment bldgs., 68 units. $250,000.

Conn., Bridgeport—Land Realty Corp., c/o I. M. Flapan, 160-16 Jamaica Ave., Jamaica, N. Y., brick garden apartments, Boston and Mill Hill Aves. Over $150,000.

N. J., Belleville—Grey Lock Gardens, Inc., c/o Wm. Lehman, archt., 972 Broad St., Newark, will not construct 2 story, brick, concrete, frame garden type apartment bldgs., Project abandoned. CD 6/4—ENR 6/10.

N. J., East Orange—Owner, c/o B. Sumner Gruzen, archt., 921 Bergen Ave., Jersey City, 2 story, brick, frame garden apartment. $200,000.

O., Cleveland—A. J. Hummer Bldg. Co., 4091 Meadowbrook Blvd., twenty-five 1 story, basmnt., 25x29 ft., brick homes. $150,000.

O., Cleveland—Wm. R. Powell, archt., Rose Bldg., soon lets contract converting office bldg., into 54 suite apartment bldg., for Sloan Building Co., Jos. R. Hollander, mgr., Rose Bldg. $150,000. CD 6/3—ENR 6/10.

O., Cleveland—Eastern States Homes, Inc., Mr. Winston & F. Bond, 22 W. 48 St., New York, N. Y., 4 and 6 family dwelling units.

COMMERCIAL PUBLIC BLDGS.

(Proposed Work, Cont'd.)

O., Cleveland Heights—Quilliams-Noble Co., M. Levan, 200 Engineers Bldg., Cleveland, soon lets contract two 3 story, bsmnt., 112x220 ft. apartment bldgs. $300,000. J. A. Gattozzi, 2000 W. 25 St., Cleveland, archt.

★**O., Warren**—Eastern States Homes, Inc., Mr. Winston & F. Bond, 22 W. 48 St., New York, N. Y., 4 and 6 family multiple housing. $1,000,000.

★**Pa., Phila.**—Cliveden Village Corp., Land Title Bank & Trust Co., 67 duplex apartments, Upsal, Cleveden and Boyer Sts. $525,000.

Tex., Brownsville—Geo. A. Jackson & Co., Greenville Ave., Dallas, dwellings. $400,000.

Tex., Houston—Miles Strickland, Second National Bank Bldg., plans by McGinty-Knostman, 2017 W. Gray Ave., seventy-five 1 story, frame type duplexes of approx. 250 units, utilities, appurtenances. $225,000.

★**Tex., Houston (Galena Park Area)**—Farm & Home Savings & Loan Assn., Shell Bldg., 1 story, frame dwellings, concrete fdns., underground utilities, etc. $600,000.

Tex., San Antonio—F. Robertson, 227 Cloverleaf Ave., 24 or more dwellings, utilities, etc. $150,000.

Wash., Seattle—New Housing, Inc., c/o O. E. Hancock, archt., 10743 17 Ave. N.E., Seattle, Zone 55, 21 unit apartment bldgs., 28 Ave. N.W. and W. 56 Sts. $153,000.

Alta., Edmonton—W. L. Wilkin, Ltd., Jasper Ave. and 101 St. reconstructing commercial block.

★**Ont., Sudbury**—International Nickel Co. of Canada, Ltd., 25 King St. W., Toronto, 100 dwellings. $500,000.

BIDS ASKED

N. J., Roselle—Warinanco Village, St. George Ave., 2 story, bsmnt., brick garden apartments. $175,000. I Naftali, 900 Bergen Ave., Jersey City, archt. CD 7/1—ENR 7/9.

O., East Cleveland—M. A. Powell, 2180 Lee Rd., Cleveland, 2 story, bsmnt., 130x218 ft. apartment. $150,000. J. A. Gattozzi, 2000 W. 25 St., Cleveland, archt.

CONTRACTS AWARDED

★**Ala., Mobile**—D'Iberville Apts., Inc., A. A. Evans, pres., Mobile, 65 bldg. apartment containing 214 units on 22-acre site, Spring Hill Ave. and Stanton Rd., to Evans Constr. Co., 1 National Bank Bldg. Est. **$1,000,000.** H. Pembleton, 2121 Highland Ave., Birmingham, archt.

Conn., Hartford—Trinity Realty, Inc., c/o Jos. E. Kane, archt., 49 Pearl St., three 8-family, four 16-family and two 4-family dwellings, Hughes St., to Kalda Constr. Corp., 305 Broadway, New York, N. Y., **$321,600.**

Conn., Manchester — Manchester Development Corp., c/o Jos. E. Kane, archt., 49 Pearl St., Hartford, 86 frame homes, Lenox St. Owner builds. **$344,000.**

N. J., Avenel—Homestead Ridge Development Co., 786 Broad St., Newark, twenty-five 2 story, brick, frame residences, separate contracts. **$150,000.** Max Kimmel, 262 Renner Ave., Newark, archt.

N. J., Bound Brook—Lincoln Homes, Inc., 441 Golf Ave., Maywood, thirty-one 2 story, bsmnt. residences, East Bound Brook, to Builders Assoc., Inc., 441 Golf Ave., Maywood, **$155,000.** Percy Simon, 210 Main St., Hackensack, archt.

N. J., Somerville—Madison Gardens, Inc., 33-43 Bell Blvd., Bayside, N. Y., seven 2 story, bsmnt., brick veneer and cinder block garden apartment bldg., to Cliff Bldg. Corp., 163-18 Jamaica Ave., Jamaica, N. Y. Benj. Braunstein, 163-18 Jamaica Ave., Jamaica, N. Y., archt.

N. J., Trenton—Brunbrook Builders, 1776 Broadway, New York, N. Y., fifty-seven 2½ story, bsmnt. brick, cinder block residences, owner builds, **$456,000;** electrical work, to R. & S. Electric Co., 214 Bender St., Highland Park. FHA. CD 7/7—ENR 7/15.

Pa., Phila—Cliveden Village, Inc., 6032 Market St., permanent dwellings, Mt. Airy Sect., Boyer St. between Upsal and Cliveden Sts. Owner builds. **$415,400.** CD 6/14—ENR 6/22.

Tex., San Antonio—F. Robertson, 227 Cloverleaf Ave., 24 or more dwellings, force account. Approx. **$175,000.** CD 7/15—ENR 7/22.

Que., Quebec City—Cie du Parc St. Pascal, c/o A. Gilbert, Hotel St. Roch, 230 St. Joseph St., 100 dwellings, to Eleonore Rousseau, Quebec West, and L. Belanger, Ste. Therese de Beauport, about **$380,000.** G. Desmeules, 226 St. Jean St., archt. CD 7/12—ENR 7/15.

INDUSTRIAL BUILDINGS

PROPOSED WORK

Calif., Ceres—PLANT—Pacific Dehydrator Co., c/o Theo. O. Leydecker, 6 tunnel dehydrator plant. Over $40,000.

Calif., Richmond—WAREHOUSE—Philippine Refining Co., Point San Pablo, rebuilding warehouse Point San Pablo near here. $60,000.

Conn., Bridgeport—PLANT—Owner, c/o L. F. Caproni, archt., 1221 Chapel St., New Haven, brick plant. Over $40,000.

Conn., Simsbury—PLANT—Frozen Food Lockers, Inc., Simsbury, plans being completed by Keith S. Heine, 101 Mohawk Dr., Hartford, 1 story, 50x70 ft. plant.

Conn., Stamford—PLANT—Yale & Towne Mfg. Co., 200 Henry St., 1 story, 57x120, brick plant addn.

Ind., Vincennes — MILLS — Baltic Mills, Vincennes, rebuilding mills destroyed by fire. $75,000 incl. equip.

Ind., Washington—PLANT—Corcoran Metal Products, W. Front St., rebuilding plant, destroyed by fire. $100,000 incl. equip.

Mich., Chelsea—FOUNDRY—Peninsular Furnace & Foundry Co., brick, concrete foundry bldg., replacing fire loss. Over $50,000.

N. J., Garwood—SHOP—N. & H. Experimental Tool & Die Works, 11 Cedar St., Cranford, plans by C. Bergh, 261 Hickory Ave., 1 story, cinder block and concrete machine shop bldg. V. Rizzola, 261 Hickory Ave., engr.

N. J., Hoboken—BOILER HOUSE—Bethlehem Steel Co., foot of 14 St., soon lets contract boiler house.

Okla., Alva — GRAIN TERMINAL — Alva Public Terminal Co., Alva, 1,000,000 bu. concrete grain terminal.

Ore., Corvallis—MILL—Fischer Mill & Warehouse Co., Corvallis, rebuilding mill, destroyed by fire, $50,000.

Ore., Corvallis—MILL and WAREHOUSE—Judson Smith, Route 3, rebuilding flour mill and warehouse, destroyed by fire. Fischer Benton Mill and Warehouse Co., lessee.

Pa., Donora—PLANT—Donora Steel & Wire Wks., Donora, modernizing, expanding plant. Over $40,000.

W. Va., Grafton—COAL TIPPLE, etc.—W. Virginia Consolidated, Inc., c/o G. H. Burnside, Clarksburg, coal tipple and mining facilities, near here. Over $25,000.

Wis., Bayfield—PLANT—Otto L. Kuehn Co., 403 E. Detroit St., Milwaukee, plans by F. F. Drolshagen, 647 W. Virginia St., Milwaukee, 1 story, 48x52 ft. fish plant addn., 1 story, 9x19 ft., boiler room, both rein.-con., brick, 16x160 ft. wood and piling wharf.

Wis., Green Bay—WAREHOUSE—Wisconsin Wholesalers, Inc., 1200 Velp Ave., plans by Foeller, Schober, Berners, Safford & Jahn, 310 Pine St., 1 story, 50x300 ft. concrete or frame warehouse, concrete fdn.

Wis., Richland Center—BOILER HOUSE, etc.—Richland Hospital, Richland Center, plans by E. A. Stubenrauch, 708 Erie Ave., Sheboygan. 2 story, 30x48 ft. brick, concrete boiler house and laundry bldg.

Wis., Sauk City — WAREHOUSE — A. F. Wetzel & Co., Sauk City, plans by Edw. Tough, 305 S. Mills St., Madison, 1 story, 40x100 ft., poultry warehouse, concrete block, concrete fdn.

Que., Montreal—OVERHAUL SHOP—Canadian Pratt & Whitney Co. Ltd., 1117 St. Catherine St. W., plans by E. J. Turcotte, 1010 St. Catherine St., 2 story, brick overhaul shop exten., concrete fdn. $50,000.

BIDS ASKED

Bids Asked July 27

Que., Montreal—GARAGE—Montreal Tramways Co., 159 W. Craig St., 1 story, 162x322 ft., brick autobus garage, Levis St. $200,000. CD 6/9—ENR 6/17.

Bids Asked July 30

N. J., Hoboken—SHOP—Bethlehem Steel Co., foot of 14 St., 1 story, 120x320, brick plate shop. Lockwood-Greene, 30 Rockefeller Plaza, New York, N. Y., engrs.

Que., Lac Edouard—ROUND HOUSE—Canadian National Rys., 360 McGill St., Montreal, H. A. Dixon, ch. engr. (operations), roundhouse and terminal facilities. $50,000. Plans deposit $25.

CONTRACTS AWARDED

California — PLATE SHOP — General Engineering & Dry Dock Co., foot of Schiller St., Alameda, plate shop bldg., to Younger Constr. Co., Cheda Bldg., San Anselmo.

California — DEHYDRATION PLANTS — Owner, c/o J. M. Montgomery & Co., engrs., 306 W. 3 St., Los Angeles, 4 wood frame dehydration plants, 2 at Hanford, 1 ea. at Madera and Clovis, incl. storage bldgs., paving, sewer and water sys., to Vern R. Huck, 3021 Rowena St., Los Angeles, approx. **$135,000.**

Calif., Burbank—PLANT—Lockheed Aircraft Corp., 1 story, 150x450 ft., reinforced brick, commissary bldg., 1907 Empire Ave., to H. W. Baum Co., 232 Van Ness Ave., Los Angeles, approx. **$225,000.** CD 6/11—ENR 6/17.

Calif., Emeryville — FACTORY — F.A.B. Mfg. Co., 1249-67 St., Emeryville, factory bldg. addn., brick walls, steel sash, etc., to W. K. Owen, 3145 Pleitner Ave., Oakland. Est. **$40,000.**

Calif., Emeryville—WAREHOUSE, etc.—Grove Regulator Co., 6529 Green St., brick, frame warehouse, factory and personnel office bldg., to W. K. Owen, 3145 Pleitner Ave., Oakland. Est. over **$40,000.**

Calif., Los Angeles—FACTORY—L. Meyer, 4605 E. 48 St., Los Angeles, 103x107 ft., rein.-con. factory bldg., to Wm. F. Neil Co., 604 Loma Vista St., Los Angeles, over $40,000. H. Miller, 4814 Loma Vista St., archt.

Calif., San Francisco—PLATE SHOP, etc.—Matson Navigation Co., 215 Market St., and sheet metal shops, to Swinerton & Walberg Co., 225 Bush St. Leland S. Rossener, 233 Sansome St., engr. CD 7/14.

Calif., Stockton—PLANT—World Wide Food Products Co., Madison St. between Main and Weber Sts., remodeling dehydrating plant. Owner builds.

Conn., Torrington—FROZEN FOOD LOCKER PLANT—Owners, c/o A. G. Weigold, Torrington Creamery, Inc., West Torrington, $60,000. Separate frozen food compartment locker plant. Owner builds. CD 5/26—ENR 6/10.

Mass., Worcester—FACTORY—Olson Mfg. Co., 54 Commercial St., 1 story, 147x155 ft., brick, stone, concrete factory addn., to E. A. Cross Co., 150 Prescott St., $75,000; electric work to J. J. Donahue Electric Co., 39 Mechanic St. G. Adolph Johnson, 289 Main St., archt.

Mich., Redford—FACTORY—Detroit Diesel Engine Div. General Motors Corp., Detroit, 1 story, 250x250 ft., brick, steel factory bldg., to National Concrete Fireproofing Co., Guardian Bldg., Cleveland, O. Est. **$300,000.** Argonaut Realty Co., General Motors Bldg., Cleveland, O., engrs.

Minn., South St. Paul—PLANT—Swift & Co., C. A. Cushman, genl. mgr., South St. Paul, general contract 2 story, about 40x120 ft., rein.-con., brick, etc. top addn., to Kraus-Anderson Co., 511 S. 7 St., Minneapolis. Bids 7/9. CD 2/25/42—ENR 3/5/42.

N. J., Jersey City — WAREHOUSE — Maid-Glass Bottle Co., 135 Westside Ave., 1 story, 100x250 ft., steel frame storage warehouse, to Geo. Siegler & Co., 26 Journal Sq. $42,000. CD 1/13—ENR 1/21.

N. J., Jersey City and Bayonne—FACTORY—Western Electric Co., 100 Central Ave., Kearny, general alterations 1 story, brick manufacturing plant bldg., to Hugh Montague & Son, 60 Bergen Ave., Jersey City, over **$75,000.** CD 6/22—ENR 6/24.

N. J., New Brunswick—PLANT—E. R. Squibb & Co., 745 Fifth Ave., New York, N. Y., 3 story, brick plant bldg., to The Turner Constr. Co., 420 Lexington Ave., New York, N. Y., **$89,000.** CD 6/30—ENR 7/8.

N. J., Totowa—PLANT—North Jersey Egg Auction, Inc., 582 McBride Ave., West Paterson, 2 story, 50x200 ft. L shaped, cinder block egg auction bldg., to Mahiew Constr. Co., 3 Wagarow Blvd., Paterson. CD 6/22—ENR 6/24.

O., Cleveland—FACTORY—American Coach & Body Co., J. Holan, pres., 9502 Woodland Ave., brick, steel factory addn., to H. L. Vokes Co., 5300 Chester Ave. Est. $50,000. Simon & Simon, 5300 Chester Ave., engr.

O., Cleveland — FACTORY — Champion Machine & Forging Co., H. W. Foster, pres., 3695 E. 78 St., 1 story, 80x200 ft., brick, reinforced con. die storage and service bldg., to Sam W. Emerson Co., 1836 Euclid Ave. Est. $100,000. McGeorge & Hargett, 9400 Quincy Ave., engrs.-archts.

Ore., Jefferson — PLANT — Santiam Flax Growers Assn., Jefferson, flax processing plant, to Zuber Brothers Constr. Co., 637 S.E. Water St., Portland, **$79,975.** Awarded 7/12.

Pa., Scranton — PLANT — Murray Corp. of America, 7700 Russell St., Detroit, Mich., addn., brick, steel, concrete plant bldgs., to Esslinger-Misch Co., 159 E. Columbia St., Detroit, Mich. Est. over **$150,000.** CD 7/8—ENR 7/15.

S. D., Sioux Falls—PLANT—Sioux Falls Rendering Co., soybean processing plant, to Newell Constr. Co., 525 H. St. S.W., Cedar Rapids, Ia. Est. over **$40,000,** incl. equip.

Wis., Hortonville—WAREHOUSE—Fox Valley Canning Co., Hortonville, 1 story, 40x80 ft., hollow tile warehouse addn., to Frank Simmons, Dale. J. F. Dreger, 188 Waugoo St., Oshkosh, archt. CD 7/12—ENR 7/15.

B. C., New Westminster—PLANT—Fraser Valley Fibre Flax Assn., New Westminster, processing plant, Campbell River Rd., to A. Ward & Son, Ltd., 131-11 Ave., about **$100,000** equipped. CD 6/9—ENR 6/17.

Que., Montreal—PLANT—Canada Packers Ltd., 6000 St. Patrick St., reconstruct fertilizer div. of plant, to Richard and H. A. Ryan, Ltd., 1808 William St., approx. $95,000. CD 6/3—ENR 6/10.

Que., St. Louis De Gonzague—FACTORY—St. Louis Flax Co-op., Ltd., J. A. R. Lafleche, secy., 2 story, 45x150 ft. flax factory, concrete block walls, concrete fdn., to G. Arbour & Sambault, Ltd., 726 Atwater St., Montreal. Est. **$40,000.**

Que., Thetford Mines—PLANT—Asbestos Corp., Ltd., 14 Notre Dame St., plant addn., to L. Poudrier, 21 Cyr St. Est. $60,000. CD 3/25—ENR 4/2.

Que., Valleyfield—PLANT BUILDINGS—Canadian Bronze Powder Works, Ltd., 9 East Park, rebuilding three 23x27x20 ft. plant units, to Cook & Leitch, 1440 St. Catherine St. W., Montreal, **$57,680.** CD 6/9—ENR 6/17.

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JULY